

Form MMS-124 - Electronic Version
Application for Permit to Modify

Lease G14357	Area EC	Block 88	Well Name 001	ST 00	BP 00	Type Development
Application Status Approved			Operator 02852 Rosetta Resources Offshore, LLC			
Pay.gov Amount: \$110.00		Agency Tracking ID: EWL-APM-87660		Pay.gov Tracking ID 24UQF1LU		
General Information						
API 177034086500		Approval Dt 17-JUL-2008		Approved By David Stanley		
Submitted Dt 09-JUL-2008		Well Status Completed		Water Depth 60		
Surface Lease G00935		Area EC		Block 89		
Approval Comments						
All operations must be conducted in accordance with the OCS Lands Act (OCSLA), the lease terms and stipulations, the regulations of 30 CFR Part 250, Notices to Lessees and Operators (NTLs), the approved Application for Permit to Modify (APM), and any written instructions or orders of the District Supervisor.						
Correction Narrative						
Permit Primary Type Enhance Production						
Permit Subtype(s) Change Zone						
Operation Description						
Procedural Narrative						
Please see procedures attached						
Subsurface Safety Valve						
Type Installed SCSSV						
Feet below Mudline 486						
Shut-In Tubing Pressure (psi) 340						
Rig Information						
Name		Id		Type		ABS Date
* LIFT BOAT		49137		JACKUP		
Blowout Preventers						
Preventer		Size		Working Pressure		--- Test Pressure --- Low High
Date Commencing Work (mm/dd/yyyy) 10-JUL-2008						
Estimated duration of the operation (days) 7						
Verbal Approval Information						
Official				Date (mm/dd/yyyy)		
Questions						
Number	Question			Response	Response Text	
1	Is H2S present in the well? If yes, then comment on the inclusion of a Contingency Plan for this operation.			NO		

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Questions

Number	Question	Response	Response Text
2	Is this proposed operation the only lease holding activity for the subject lease? If yes, then comment.	YES	Lease expires 09/20/08
3	Will all wells in the well bay and related production equipment be shut-in when moving on to or off of an offshore platform, or from well to well on the platform? If not, please explain.	YES	
4	Are you downhole commingling two or more reservoirs?	NO	
5	Will the completed interval be within 500 feet of a lease or unit boundary line? If yes, then comment.	NO	
6	For permanent abandonment, will casings be cut 15 feet below the mudline? If no, then comment.	N/A	

ATTACHMENTS

File Type	File Description
pdf	Proposed Wellbore Schematic
pdf	Current Wellbore Schematic
pdf	EC881DNewProcedures
pdf	EC881Danswers
pdf	EC88No1DLog

CONTACTS

Name	Madelon Haas
Company	Rosetta Resources Offshore, LLC
Phone Number	7133354010
E-mail Address	madelon.haas@rosettaresources.com
Contact Description	Regulatory Analyst

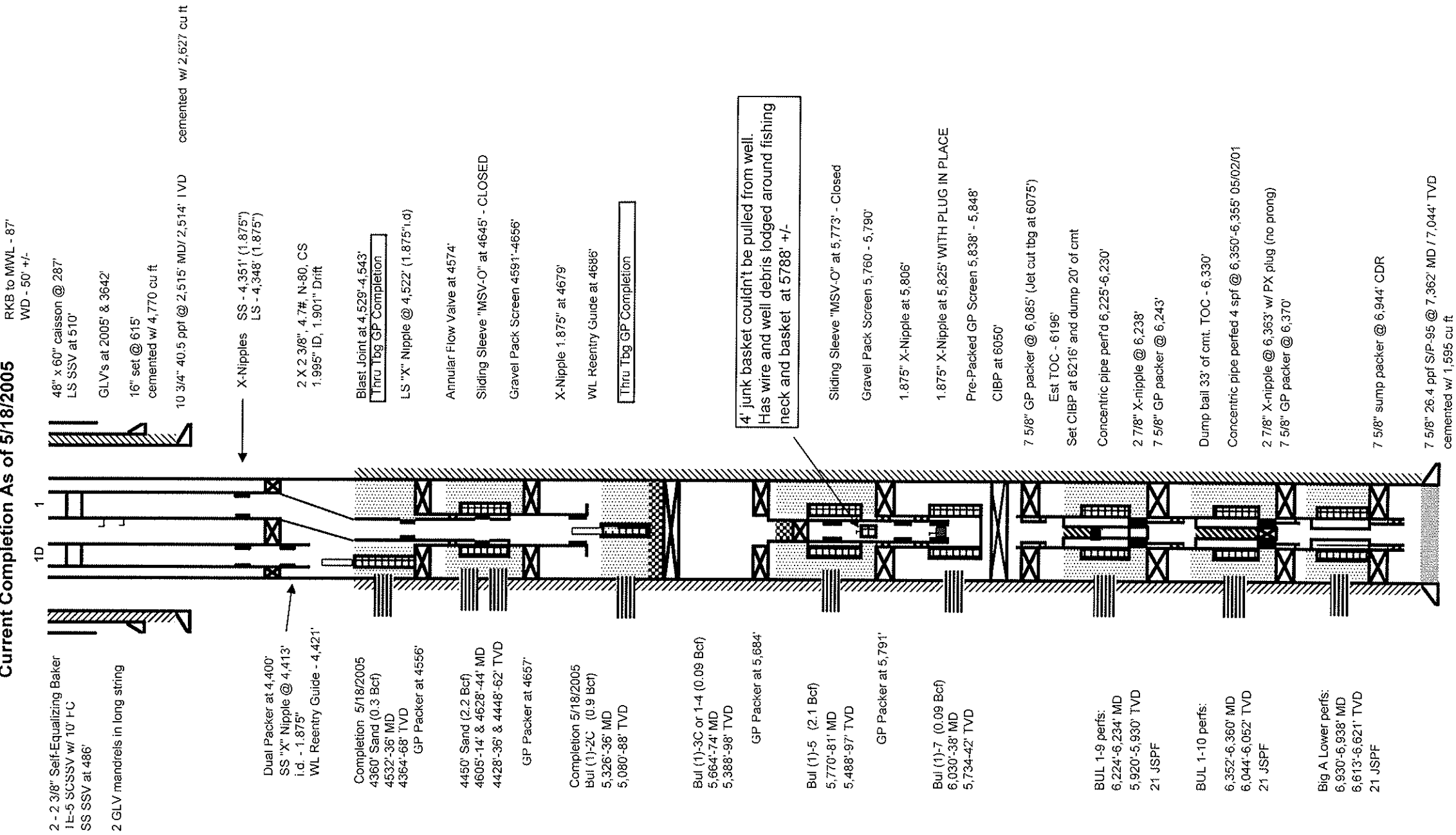
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PAPERWORK REDUCTION ACT OF 1995 (PRA) STATEMENT: The PRA (44 U.S.C. 3501 et seq. Requires us to inform you that we collect this information to obtain knowledge of equipment and procedures to be used in drilling operations. MMS uses the information to evaluate and approve or disapprove the adequacy of the equipment and/or procedures to safely perform the proposed drilling operation. Responses are mandatory (43 U.S.C. 1334). Proprietary data are covered under 30 CFR 250.196. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB Control Number. Public reporting burden for this form is estimated to average 11/4 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to the Information Collection Clearance Officer, Mail Stop 4230, Minerals Management Service, 1849 C Street, N.W., Washington, DC 20240.

OCS-G 14357 #1 & #1D East Cameron Block 88 Offshore Louisiana

JAR 4/22/2005

Current Completion As of 5/18/2005



TD: 7,367' MD / 7,049' TVD



Behind Pipe Potential
3,500' SD @ 3,564' - 68' (MD)

48" x 60" caisson @ 287'
LS SSV at 510'

GLV's at 2005' & 3642'

16" set @ 615'
cemented w/ 4,770 cu ft

Surface Casing: 10 3/4" 40.5 ppt @ 2,515' MD / 2,514' IVD
Cemented w/ 2,627 cu ft

Cement Packer: from 4,375' to 3,000' using Class H cement.
Using 250 sx Class H (1.13 ft3/sx)

X-Nipples SS - 4,351' (1.875")
LS - 4,348' (1.875")

Tubing Punch: @ 4,375'

CIBP: set @ 4,410' w/ 20' cement plug

2 Strings of 2 3/8", 4.7#, N-80, CS
1.995" ID, 1.901" Drift

Blast Joint at 4,529'-4,543'
Thru Tbg GP Completion

LS "X" Nipple @ 4,522' (1.875" i.d.)

Annular Flow Valve at 4574'

Sliding Sleeve "MSV-O" at 4645' - CLOSED

Gravel Pack Screen 4591'-4656'

X-Nipple 1.875" at 4679'

WL Reentry Guide at 4686'

Thru Tbg GP Completion

4' junk basket couldn't be pulled from well.
Has wire and well debris lodged around fishing neck and basket at 5788' +/-

Sliding Sleeve "MSV-O" at 5,773' - Closed

Gravel Pack Screen 5,760 - 5,790'

1.875" X-Nipple at 5,806'

1.875" X-Nipple at 5,825' WITH PLUG IN PLACE

Pre-Packed GP Screen 5,838' - 5,848'

CIBP at 6050'

7 5/8" GP packer @ 6,085' (Jet cut tbg at 6075')

Est TOC - 6196'

Set CIBP at 6216' and dump 20' of cmt

Concentric pipe perf'd 6,225'-6,230'

2 7/8" X-nipple @ 6,238'

7 5/8" GP packer @ 6,243'

Dump bail 33' of cmt. TOC - 6,330'

Concentric pipe perf'd 4 spf @ 6,350'-6,355' 05/02/01

2 7/8" X-nipple @ 6,363' w/ PX plug (no prong)

7 5/8" GP packer @ 6,370'

7 5/8" sump packer @ 6,944' CDR

7 5/8" 26.4 ppt SIP-95 @ 7,362' MD / 7,044' TVD
cemented w/ 1,595 cu ft

2 - 2 3/8" Self-Equalizing Baker IE-5 SCSSV w/ 10' FC
SS SSV at 486'

2 GLV mandrels in long string

3,550' Sd: perf @ 3,628' - 32'

Dual Packer at 4,400'
SS "X" Nipple @ 4,413' i.d. - 1.875"

WL Reentry Guide - 4,421'

Completion 5/18/2005
4360' Sand (0.3 Bcf)
4532'-36' MD
4364'-68' TVD
GP Packer at 4556'

4450' Sand (2.2 Bcf)
4605'-14' & 4628'-44' MD
4428'-36' & 4448'-62' TVD
GP Packer at 4657'

Bul (1)-2C (0.9 Bcf)
5,326'-36' MD
5,080'-88' TVD
Completion 5/18/2005

Bul (1)-3C or 1-4 (0.09 Bcf)
5,664'-74' MD
5,388'-98' TVD
GP Packer at 5,684'

Bul (1)-5 (2.1 Bcf)
5,770'-81' MD
5,488'-97' TVD
GP Packer at 5,791'

Bul (1)-7 (0.09 Bcf)
6,030'-38' MD
5,734'-42' TVD

BUL 1-9 perfs:
6,224'-6,234' MD
5,920'-5,930' TVD
21 JSPF

BUL 1-10 perfs:
6,352'-6,360' MD
6,044'-6,052' TVD
21 JSPF

Big A Lower perfs:
6,930'-6,938' MD
6,613'-6,621' TVD
21 JSPF

July 14, 2008

Rosetta Resources Offshore, LLC
Lease G14357, EC 88 No. 001

Mr. David Stanley,

In response to your comments concerning our APM submitted on June 30, 2008 please see the following:

Item#1 – See attached 88 #1D Graph

Item#2A – Cement Packer Completion, Economic Justification

Item#2B – No Casing problems. Dual well with pressure on both tubing strings and 0 psi on casing. See EC Blk 88 #1D production Graph

Item#3 – Sea water was used as a packer fluid

Item#4 – Cement packer will be pump and displaced with a wiper plug + filtered water

Item#5 – Cement packer from 4375' – 3000' with possible perfs @ 4338'-43'; 4282-84'; 3628'-32'

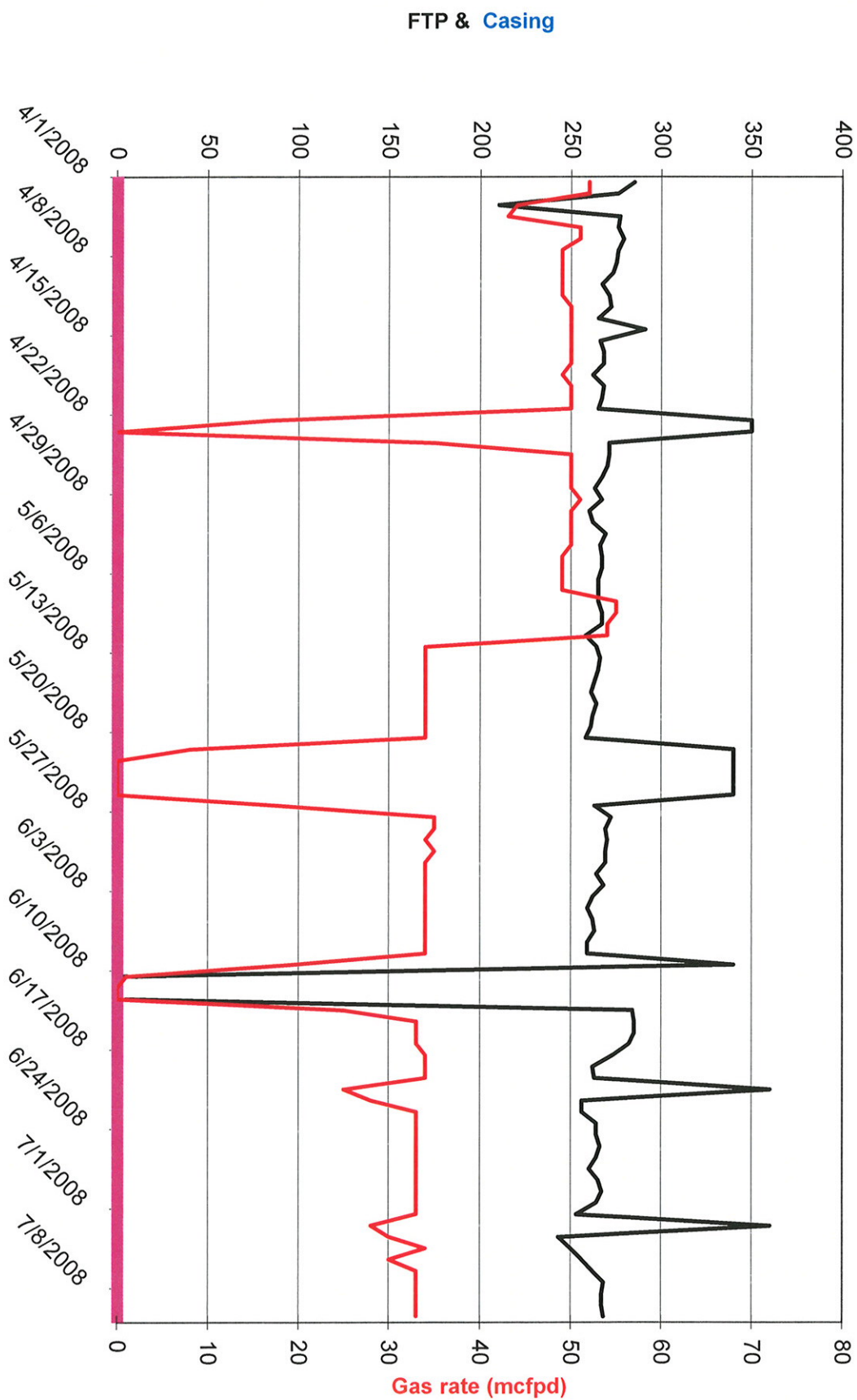
Item#6 – Procedure includes pressure testing casing to 1,500 psi (and monitoring tbgr. Pressure) to confirm pressure integrity prior to commencing cementing operations.

Item#7 – Procedure includes testing cement packer by perforating 4 shots @ 3528' and testing to 1,500 psi

If you require further information please contact me at 713-335-4010.

Madelon Haas
Regulatory Analyst
Rosetta Resources Offshore, LLC

East Cameron Blk 88 #1D Daily Production
for Last 90 Days



**East Cameron Blk 88 #1D Daily Production
for last 90 days**

Date	Gas (mcf)	Oil (bbls)	Wtr (bbls)	Downtime (hrs)	FTP (psi)	CP (psi)
4/1/2008	52	0	0	0	285	0
4/2/2008	52	0	0	0	276	0
4/3/2008	44	0	0	1	210	0
4/4/2008	43	0	0	4	277	0
4/5/2008	51	0	0	0	276	0
4/6/2008	51	0	0	0	279	0
4/7/2008	49	0	0	0	276	0
4/8/2008	49	0	0	0	275	0
4/9/2008	49	0	0	0	273	0
4/10/2008	49	0	0	0	267	0
4/11/2008	49	0	0	0	271	0
4/12/2008	50	0	0	0	272	0
4/13/2008	50	0	0	0	265	0
4/14/2008	50	0	0	0	291	0
4/15/2008	50	0	0	0	266	0
4/16/2008	50	0	0	0	268	0
4/17/2008	50	0	0	0	268	0
4/18/2008	49	0	0	0	262	0
4/19/2008	50	0	0	0	268	0
4/20/2008	50	0	0	0	267	0
4/21/2008	50	0	0	0	265	0
4/22/2008	17	0	0	16	350	0
4/23/2008	0	0	0	24	350	0
4/24/2008	35	0	0	7	271	0
4/25/2008	50	0	0	0	271	0
4/26/2008	50	0	0	0	270	0
4/27/2008	50	0	0	0	267	0
4/28/2008	50	0	0	0	263	0
4/29/2008	51	0	0	0	267	0
4/30/2008	50	0	0	0	260	0
5/1/2008	50	0	0	0	262	0
5/2/2008	50	0	0	0	269	0
5/3/2008	50	0	0	0	266	0
5/4/2008	49	0	0	0	267	0
5/5/2008	49	0	0	0	267	0
5/6/2008	49	0	0	0	265	0
5/7/2008	49	0	0	0	265	0
5/8/2008	55	0	0	0	265	0
5/9/2008	55	0	0	0	267	0
5/10/2008	54	0	0	0	267	0
5/11/2008	54	0	0	0	258	0
5/12/2008	34	0	0	0	264	0
5/13/2008	34	0	0	0	266	0
5/14/2008	34	0	0	0	265	0
5/15/2008	34	0	0	0	263	0
5/16/2008	34	0	0	0	261	0
5/17/2008	34	0	0	0	264	0

5/18/2008	34	0	0	0	262	0
5/19/2008	34	0	0	0	261	0
5/20/2008	34	0	0	0	258	0
5/21/2008	8	0	0	18	340	0
5/22/2008	0	0	0	24	340	0
5/23/2008	0	0	0	24	340	0
5/24/2008	0	0	0	24	340	0
5/25/2008	0	0	0	24	340	0
5/26/2008	18	0	0	11	263	0
5/27/2008	35	0	0	0	272	0
5/28/2008	35	0	0	0	269	0
5/29/2008	34	0	0	0	270	0
5/30/2008	35	0	0	0	269	0
5/31/2008	34	0	0	0	269	0
6/1/2008	34	0	0	0	264	0
6/2/2008	34	0	0	0	268	0
6/3/2008	34	0	0	0	262	0
6/4/2008	34	0	0	0	259	0
6/5/2008	34	0	0	0	262	0
6/6/2008	34	0	0	0	263	0
6/7/2008	34	0	0	0	259	0
6/8/2008	34	0	0	0	259	0
6/9/2008	19	0	0	11	340	0
6/10/2008	1	0	0	23	0	0
6/11/2008	0	0	0	24	0	0
6/12/2008	0	0	0	24	0	0
6/13/2008	25	0	0	6	284	0
6/14/2008	33	0	0	0	285	0
6/15/2008	33	0	0	0	285	0
6/16/2008	33	0	0	0	282	0
6/17/2008	34	0	0	0	273	0
6/18/2008	34	0	0	0	262	0
6/19/2008	34	0	0	0	263	0
6/20/2008	25	0	0	2	360	0
6/21/2008	28	0	0	4	256	0
6/22/2008	33	0	0	0	256	0
6/23/2008	33	0	0	0	264	0
6/24/2008	33	0	0	0	264	0
6/25/2008	33	0	0	0	266	0
6/26/2008	33	0	0	0	264	0
6/27/2008	33	0	0	0	260	0
6/28/2008	33	0	0	0	265	0
6/29/2008	33	0	0	0	267	0
6/30/2008	33	0	0	0	264	0
7/1/2008	33	0	0	0	253	0
7/2/2008	28	0	0	2	360	0
7/3/2008	30	0	0	1	243	0
7/4/2008	34	0	0	0	250	0
7/5/2008	30	0	0	1.5	256	0
7/6/2008	33	0	0	0	262	0
7/7/2008	33	0	0	0	268	0
7/8/2008	33	0	0	0	267	0

7/9/2008	33	0	0	0	267	0
7/10/2008	33	0	0	0	268	0

CEMENT PACKER COMPLETION, ECONOMIC JUSTIFICATION

WELL NAME, OWNERSHIP AND AFE AMOUNT

WELL NAME	W. I. %	NRI %	RIG WORKOVER	CEMENT PACKER
EC 88 # 1-D	100.00%	78.58%	\$1,500,000	\$406,000

AFE PROPOSAL

Workover to establish production to save lease by recomplete with cement packer and GP to the 4140' Sand

WELL HISTORY

The East Camerton 88 #1 was drilled and completed as a single gas well in June 1999. The well was set up initially with multiple completions in the deeper zone in the Big A, BUL 1-10 and BUL 1-9 Sands with gravel packs and sliding sleeves across all zones. The production was established in the Big A Sand initially, it produced from 10/1999 to 4/2001 and recovered 1.8 bcf, 52 mbw and 3 mbc but watered out in 4/2001. The BUL 1-10, BUL 1-9 BUL 1-7 and BUL 1-5 had been produced with a combined reserves of 3.8 bcf, 97 mbw before they watered out. The # 1-D was worked over in 4/2005 and dually completed in the BUL 2-C in the long string and the 4360' Sand in the short string. The current rates are 2100 MCFD and 30 MCFD for the # 1 and the # 1-D respectively. The # 1-D has produced 0.3 bcf, 10 mbw and 0.5 mbc and is frequently loaded up with fluid due to low FTP and low gas rate, it has no economic remaining reserves in the 4360' sand and it is a candidate for recompletion

RIG WORKOVER ECONOMICS

Sand	Pay	Area	Recovery	Unrisked	Risked	AFIT15	ROR	Payout
4140' Rig Workover	Feet	Acre	MCF/AcFt	MMCF	MBC	MMF	MBC	\$M
\$1,500,000	6	97	568	303	0.0	273	0.0	

CEMENTRIG WORKOVER ECONOMICS

Sand	Pay	Area	Recovery	Unrisked	Risked	AFIT15	ROR	Payout
4140' Cement Packer	Feet	Acre	MCF/AcFt	MMCF	MBC	MMF	MBC	\$M
\$406,000	6	97	568	303	0.0	273	0.0	

JUSTIFICATION

The EC 88 # 1-D has no economic remaining reserves in the 4360' Sands. The EC 89 lease is currently on suspension, to save the lease, the EC 88 # 1-D is needed to be recompleted to the 4140' Sand to hold the lease. Currently there is no available candidate for recompletion. The shallow reservoirs in the EC 88/89 field are all small and marginally economics but if the workover cost can be controlled such as using cement packer and it can be economic, on the other hand conventional rig workover for the EC 88 # 1-D is cost prohibitive as is shown on above economics

MSA1 No: RSV CAT: IPNP
 Lease: EC 89 # 1-D cement packer
 Field: EAST CAMERON 88/89
 Cnty: EAST CAMERON St: FO
 Reservoir: 4140'
 Operator: ROSETTA RESOURCES

DATE : 07/09/2008
 TIME : 14:53:26
 DBS : ROS106
 SETTINGS : SETDATA
 SCENARIO : AFE

R E S E R V E S A N D E C O N O M I C S

AS OF DATE: 07/2008

--END-- MO-YEAR	GROSS OIL PRODUCTION	GROSS GAS PRODUCTION	NET OIL PRODUCTION	NET GAS PRODUCTION	NET OIL PRICE	NET GAS PRICE	NET OIL SALES	NET GAS SALES	TOTAL NET SALES
-----	-----MMBLS-----	-----MMCF-----	-----MMBLS-----	-----MMCF-----	-----\$/BBL-----	-----\$/MCF-----	-----M\$-----	-----M\$-----	-----M\$-----
06-2009	0.000	263.128	0.000	206.775	0.000	10.500	0.000	2171.133	2171.133
06-2010	0.000	9.872	0.000	7.758	0.000	10.500	0.000	81.458	81.458
06-2011									
06-2012									
06-2013									
06-2014									
06-2015									
06-2016									
06-2017									
06-2018									
S-TOT	0.000	273.000	0.000	214.533	0.000	10.500	0.000	2252.591	2252.591
AFTER	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TOTAL	0.000	273.000	0.000	214.533	0.000	10.500	0.000	2252.591	2252.591

--END-- MO-YEAR	AD VALOREM TAX	SEVERANCE TAX	DIRECT OPER EXPENSE	INT & CAP REPAYMENT	EQUITY INVESTMENT	BFIT NET CASHFLOW	DEPRECIATION & DEPLETION	FED & STATE INCOME TAX	AFIT NET CASHFLOW
-----	-----M\$-----	-----M\$-----	-----M\$-----	-----M\$-----	-----M\$-----	-----M\$-----	-----M\$-----	-----M\$-----	-----M\$-----
06-2009	0.000	0.000	131.901	0.000	2000.000	39.232	0.000	13.339	25.893
06-2010	0.000	0.000	9.244	0.000	0.000	72.214	0.000	24.553	47.661
06-2011									
06-2012									
06-2013									
06-2014									
06-2015									
06-2016									
06-2017									
06-2018									
S-TOT	0.000	0.000	141.145	0.000	2000.000	111.446	0.000	37.892	73.554
AFTER	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TOTAL	0.000	0.000	141.145	0.000	2000.000	111.446	0.000	37.892	73.554

	GROSS	W.I.	NET		BFIT	AFIT	P.W. %	BFIT P.W.	AFIT P.W.
	-----	-----	-----		-----	-----	-----	-----M\$-----	-----M\$-----
INITIAL INTEREST	1.000	1.000	0.786	RATE OF RETURN, PCT.	11.66	8.82	5.00	60.938	30.484
OIL RESERVES, MB	0.000	0.000	0.000	UNDISC. PAYOUT, YRS.	0.98	0.99	10.00	14.543	-9.408
GAS RESERVES, MMF	273.000	273.000	214.533	DISC. PAYOUT, YRS.	1.06	1.08	12.00	-2.978	-24.558
CND RESERVES, MB	0.000	0.000	0.000	UNDISC. NET/INVESTMENT	1.06	1.04	15.00	-28.239	-46.483
SGS RESERVES, MMF	0.000	0.000	0.000	DISC. NET/INVESTMENT	1.01	1.00	20.00	-67.828	-81.047
REVENUE, M\$	2866.500	2866.500	2252.591				25.00	-104.579	-113.363
OPER. EXPENSE, M\$	141.145	141.145	141.145				30.00	-138.799	-143.657
TANGIBLES, M\$	0.000	0.000	0.000	DISCOUNT %	10.00		40.00	-200.653	-198.938
INTANGIBLES, M\$	0.000	2000.000	2000.000	LIFE, YRS.	1.08		100.00	-452.721	-452.074
INITIAL OIL PRICE	0.000			GROSS OIL WELLS	0.00		200.00	-664.640	-640.203
INITIAL GAS PRICE	10.500			GROSS GAS WELLS	1.00		300.00	-777.968	-757.604

NSAI No: RSV CAT: 1PNP
 Lease: EC 89 # 1-D cement packer
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 Reservoir: 4140'
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R E S E R V E S A N D E C O N O M I C S

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06-2009	0.000	263.128	0.000	206.775	0.000	10.500	0.000	2171.133	2171.133
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06-2011									
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06-2016									
06-2017									
06-2018									
S-TOT	0.000	273.000	0.000	214.533	0.000	10.500	0.000	2252.591	2252.591
AFTER	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TOTAL	0.000	273.000	0.000	214.533	0.000	10.500	0.000	2252.591	2252.591

--END-- MO-YEAR	AD VALOREM TAX	SEVERANCE TAX	DIRECT OPER EXPENSE	INT & CAP REPAYMENT	EQUITY INVESTMENT	BFIT NET CASHFLOW	DEPRECIATION & DEPLETION	FED & STATE INCOME TAX	AFIT NET CASHFLOW
-----	-----M\$-----	-----M\$-----	-----M\$-----	-----M\$-----	-----M\$-----	-----M\$-----	-----M\$-----	-----M\$-----	-----M\$-----
06-2009	0.000	0.000	131.901	0.000	406.000	1633.232	0.000	555.299	1077.933
06-2010	0.000	0.000	9.244	0.000	0.000	72.214	0.000	24.553	47.661
06-2011									
06-2012									
06-2013									
06-2014									
06-2015									
06-2016									
06-2017									
06-2018									
S-TOT	0.000	0.000	141.145	0.000	406.000	1705.446	0.000	579.852	1125.594
AFTER	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TOTAL	0.000	0.000	141.145	0.000	406.000	1705.446	0.000	579.852	1125.594

	GROSS	W.I.	NET		BFIT	AFIT	P.W. %	BFIT P.W.	AFIT P.W.
	-----	-----	-----		-----	-----	-----	-----M\$-----	-----M\$-----
INITIAL INTEREST	1.000	1.000	0.786	RATE OF RETURN, PCT.	300.00	300.00	5.00	1648.470	1089.117
OIL RESERVES, MB	0.000	0.000	0.000	UNDISC. PAYOUT, YRS.	0.20	0.27	10.00	1595.932	1055.243
GAS RESERVES, MMF	273.000	273.000	214.533	DISC. PAYOUT, YRS.	0.21	0.28	12.00	1576.038	1042.355
CND RESERVES, MB	0.000	0.000	0.000	UNDISC. NET/INVESTMENT	5.20	3.77	15.00	1547.304	1023.680
SGS RESERVES, MMF	0.000	0.000	0.000	DISC. NET/INVESTMENT	4.96	3.62	20.00	1502.137	994.178
REVENUE, M\$	2866.500	2866.500	2252.591				25.00	1460.053	966.526
OPER. EXPENSE, M\$	141.145	141.145	141.145				30.00	1420.728	940.540
TANGIBLES, M\$	0.000	0.000	0.000	DISCOUNT %	10.00		40.00	1349.273	892.948
INTANGIBLES, M\$	0.000	406.000	406.000	LIFE, YRS.	1.08		100.00	1051.814	689.238
INITIAL OIL PRICE	0.000			GROSS OIL WELLS	0.00		200.00	789.908	501.444
INITIAL GAS PRICE	10.500			GROSS GAS WELLS	1.00		300.00	642.125	391.508

Rosetta Resources OP LP Recompletion Procedure East Cameron Blk 88 #1D

WELL DATA:

Water Depth:	50'
RKB - MWL:	87'
Short-String SSV:	2 3/8" Baker Self-Equalizing TE-5SCSSV @ 486'
TD:	7,367' MD (7,049' TVD)
Production Casing:	7 5/8", 26.4#, S&P-95
Casing Fluid:	Filtered Bay-water
Tubing:	2 3/8", 4.7#, N-80, CS
Dual String Packer:	4,440'
Short String EOT:	4,421'
Short String Nipples:	1.875" "X" nipple @ 4,413' and 4,351'
Potential 4,200' Sd Pay:	4,388' – 52' (OA)
Potential 4,140' Sd Pay:	4,282' – 90' (OA)
Potential 4,100' Sd Pay:	4,238' – 42' (OA)
Proposed 3,550' Sd Perfs:	3,628' – 32'
Estimated 3,550' SD BHP:	1,500 psi

Recompletion Procedure

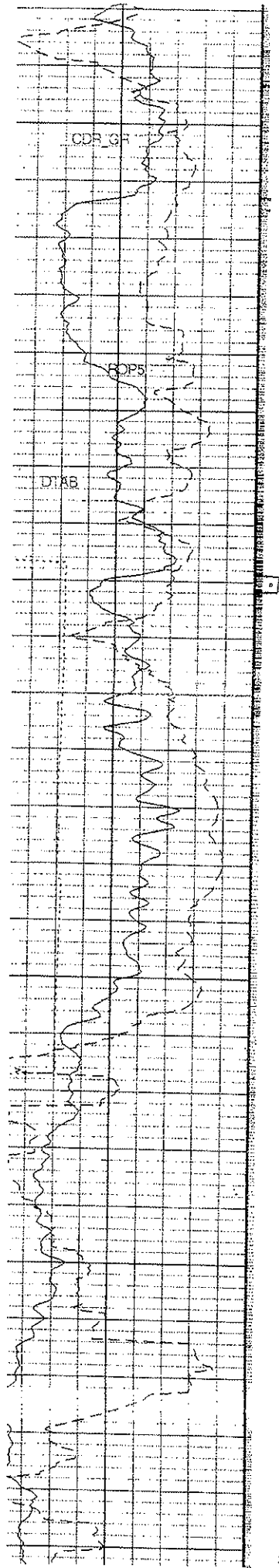
1. MIRU 175 Class jackup-boat with eline unit, filtration pod w/ 2 micron absolute filter cartridges, screen assemblies, waste tank and water supply tank, cement bulk tank, and cement pump equipment.
2. Operate SCSSV and isolate control line pressure w/ needle valve. Lock-out valve.
3. SI both tubing strings. Prepare to monitor LS tubing pressure during tbg punching and perforating operations.
4. Kill 1D zone (short-string) with ~ 20 bbls filtered sea water. Install pressure recorder and pressure test casing annulus to 1,500 psi for 15 minutes.
5. RU Perf-O-Log's e-line skid w/ 5K lubricator. RU test pump and pressure test lubricator to 5,000 psi.

6. TIH with GR+ CCL+ junk basket+ 1.6875" gauge ring to no deeper than 4,421'. Run correlate log from 4,440' (Packer) to 2,400'. POOH with gauge ring.
7. RU Hot Well Reservoir Evaluation Gamma Ray Tools, and run log from 4,400' 2,200'. Email logs to Rosetta.
8. RU 1.750" Magna Range Bridge Plug, and set at ~4,410' (below "X" nipple).
9. RU 40' x 1-1/2" Dump Bailer filled with cement, and make 2 bailer runs. Estimated TOC @ 4,390'.
10. Obtain decision from Houston office on which interval is to be perforated and adjust procedure accordingly in Steps 12 - 28.
11. TIH w/ CCL + Density Orienting Tools + 1-11/16" HSC RTG perforating gun with Puncher charges loaded 4 spf at 0° phasing. **Note: Run Pill Bar in Long String during orientation and perforating operations.**
12. Correlate collars with previously run GR/CCL and orient away from Long String. Punch tubing from 4,335' – 4,336'. **Note: if 4,400' Sd is to be perfed, punch tubing from 4,389'- 90'.** POOH.
13. RU cementing equipment. Pump 265 sx of Class H @ 16.4 ppg (Yield - 1.06 ft3/bbls). Displace cement with 2 3/8" wiper plug, and displace to 4,200' with 16.25 bbls filtered sea-water. **Note: if 4,400' Sd is productive, displace cement to 4,375'.**
14. Confirm cement displacement by running eline CCL + WB.
15. WOC 12 hrs. Bled off pressure to 0 psi
16. TIH w/ CCL + junk basket + 1.6875" gauge ring to PBTD. POOH
17. TIH w/ Density Orienting Tools and 1-11/16" HSC RTG perforating gun with Puncher charges loaded 4 spf at 90° phasing. Orient away from Long String and perforate tubing at 3,528'. POOH. Pressure test cement packer to 1,500 psi with pressure recorder for 15 minutes.
18. If required, re-cement, or proceed to Step #17.
19. TIH with Density Orienting Tools + 1-11/16" HSC RTG perforating gun with Premium charges loaded 6 spf at 0° phasing and perforate. Orient away from Long String and perforate from 3,628'- 3,632' **(or zone selected by Houston office).** POOH.
20. TIH with Orienting Tools + 2nd 1 11/16" HSC RTG perforating gun loaded 6 spf at 0° and re-perf the same interval.

21. TIH w/ CCL + tool junk basket + 1.6875" gauge ring to 3,700'. POOH
22. TIH w/ 1.750" Magna Range Bridge Plug and set @ 3,642' (MRBP will be base for the Thru-Tubing Gravel Pack). Revise depth if lower zone is to be perfed.
23. TIH w/ Gravel Pack Screen Assembly + release tool + sufficient weight bars, and set on BP @ 3,642' (See GP Assembly Detail). Revise depth if lower zone is to be perfed.
24. RU 40' x 1-1/2" Dump Bailer filled with 20/40 EconoProp, and dump EconoProp. Pump 1/4 to 1/2 Barrel to stress Econo Prop
25. TIH w/ CCL + junk basket + 1.6875" gauge to 3,602'. POOH.
26. TIH w/ cap pulling tool and pull vent cap. POOH.
27. TIH w/ setting tool + packer + overshot, and set packer with overshot placed on TTGP polish bore at 3,603'. POOH.
28. RD and demob equipment
29. If well will not flow, mob out swab unit jack-up, and swab in well.

Rig: **R. Anchorage** State: **Louisiana**

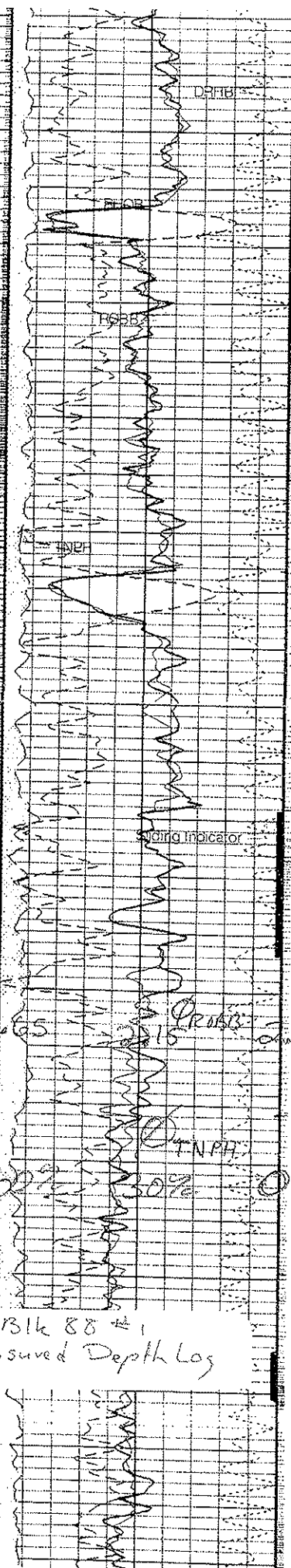
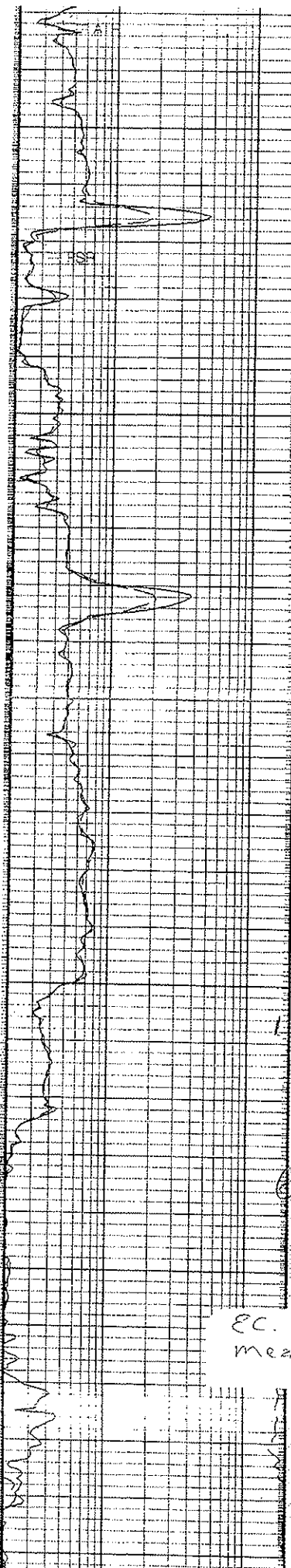
Rig: R. Anchorage Field: East Cameron Blk 88 Location: x=1,538,032' y=222,930' Well: OCS-G-14357 #1 Company: Hall Houston Oil Company	Schlumberger Anadrill		CDR* / ADN* Log 5 in / 100 ft Measured Depth Recorded Mode				
	Location	Total depth:	7367 ft		Elevation	K.B.	87 ft
		Spud date:	11-Jun-1999			G.L.	-60 ft
		Runs:	1 To 4			D.F.	87 ft
	Permanent datum:	Mean Sea Level		Elev.:	0		
	Log measured from:	Drill Floor		87 ft above Perm. datum			
	Depth reference:	Driller's Depth					
	API serial no.	Grid Conv -0.53 deg		Longitude	Latitude		
	17-703-40865-00	Total Corr 3.51 deg		W 92034' 46	N 29 16' 20		
Depth logged:	270 ft To 7367 ft		Mag decl:	2.98 deg		Other services:	
Date logged:	11-Jun-99 To 22-Jun-99		Mag dip:	59.48 deg		Direction & Inclination	
Bore hole record			Casing record				
Hole size	from	to	Size	Density	from	to	
20 in	0 ft	615 ft	48 in DP		0 F	300 ft	
13.5 in	0 ft	2515 ft	16 in	65 lbs	54.45 ft	615 ft	
9.875 in	0 ft	7367 ft	10.75 in	40.5	52.82 F	2515 ft	
Mud record			Borehole deviation record				
Type	from	to	Min	Max	from	to	
Spud	0 ft	615 ft	0 deg	0.45 deg	0 ft	2026 ft	
SW disperse	615 ft	2515 ft	2.42 deg	27.63 deg	2122 ft	7367 ft	
SW/Lignite	2515 ft	7367 ft					
Surface equipment			Software record				
Unit	OLU-KA-9808	IDEAL Wis	6_0B_82				
Depth system	BEI	SPM	6_0B_82				
		LWD	5.0				
		MWD	5.1B20				
							



3600

3700

3800



EC. Blk 88 #1
measured Depth Log

LOGS

GRAB 2.65

TNPH

30%

0%

Rig: **R. Anchorage** State: **Louisiana**

Rig:	R. Anchorage
Field:	East Cameron Blk 88
Location:	x=1,538,032' y=222,930'
Well:	OCS-G-14357 #1
Company:	Hall Houston Oil Company

Schlumberger Anadrill

CDR* Log

5 in / 100 ft True Vertical Depth Recorded Mode

Location	Total depth:	7367 ft	Elevation	K.B.	87 ft
	Spud date:	11-Jun-1999		G.L.	-60 ft
	Runs:	1 To 4		D.F.	87 ft
	Permanent datum:	Mean Sea Level	Elev.:	0	
	Log measured from:	Drill Floor		87 ft	above Perm. datum
	Depth reference:	Driller's Depth			

API serial no.	Grid Conv -0.53 deg	Longitude	Latitude
17-703-40865-00	Total Corr 3.51 deg	W 92034' 46"	N 29 16' 20"

Depth logged:	270 ft To 7367 ft	Mag decl:	2.98 deg	Other services:
Date logged:	11-Jun-99 To 22-Jun-99	Mag dip:	59.48 deg	Direction & Inclination

Bore hole record			Casing record			
Hole size	from	to	Size	Density	from	to
20 in	0 ft	615 ft	48 in DP		0 F	300 ft
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9.875 in	0 ft	7367 ft	10.75 in	40.5	52.82 F	2515 ft

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Spud	0 ft	615 ft	0 deg	0.45 deg	0 ft	2026 ft
SW disperse	615 ft	2515 ft	2.42 deg	27.63 deg	2122 ft	7367 ft
SW/Lignite	2515 ft	7367 ft				

Surface equipment		Software record	
Unit	OLU-KA-9808	IDEAL Wis	6_OB_82
Depth system	BEI	SPM	6_OB_82
		LWD	5.0
		MWD	5.1B20

