

Submit 1 Copy To Appropriate District
Office
District I - (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II - (575) 748-1283
811 S. First St., Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV - (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM
87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised July 18, 2013

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)		WELL API NO. 30-025-31343
1. Type of Well: Oil Well ☐ Gas Well ☒ Other <u>IAH</u>		5. Indicate Type of Lease STATE ☒ FEE ☐
2. Name of Operator EnergyQuest II, LLC		6. State Oil & Gas Lease No. V-2522
3. Address of Operator 4526 Research Forest Dr., Ste. 200, The Woodlands, TX 77381		7. Lease Name or Unit Agreement Name Fox "A" State
4. Well Location Unit Letter <u>F</u> : <u>2310</u> feet from the <u>NORTH</u> line and <u>2070</u> feet from the <u>WEST</u> line Section <u>2</u> Township <u>9S</u> Range <u>36E</u> NMPM LEA County		8. Well Number <u>5</u>
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 4055.6 GL		9. OGRID Number
		10. Pool name or Wildcat Allison Penn

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☐	COMMENCE DRILLING OPNS. ☐	P AND A ☐
PULL OR ALTER CASING ☐	MULTIPLE COMPL ☐	CASING/CEMENT JOB ☐	
DOWNHOLE COMMINGLE ☐			
CLOSED-LOOP SYSTEM ☐			
OTHER: ☐		OTHER: TRACER SURVEY ☒	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Perform tracer survey 8/29/14 required for compliance.

Spud Date:

08/07/91

Rig Release Date:

R-10846

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE

Debra Moore

TITLE Production Analyst

DATE 09/09/14

Type or print name Debra Moore

E-mail address: debra.moore@energyquest.us PHONE: 281-875-6200

For State Use Only

APPROVED BY:

Malay Brown

TITLE Dist Supervisor

DATE

9/23/2014

Conditions of Approval (if any):

SEP 23 2014

Archer

PUMP IN TRACER w/ CALIPER

Company ENERGY QUEST Well FOX "A" STATE #5 WW Field LEA County NEW MEXICO State	Company ENERGY QUEST	
	Well FOX "A" STATE #5 WIW	
	Field	
	County LEA	State NEW MEXICO
Location:		API #: 30-025-31343
2310' FNL & 2070' FWL LSE# V-2552		Other Services
SEC 2 TWP T95 RGE 36E		
Permanent Datum GROUND LEVEL Elevation 4056'		Elevation K.B. 4070' D.F. G.L. 4056'
Log Measured From KB @ 14'		
Drilling Measured From KB		

Date	8-29-14
Run Number	PROFILE
Depth Driller	PBTD 10002'
Depth Logger	9661'
Bottom Logged Interval	GR 9656'
Top Log Interval	SURFACE
Open Hole Size	
Type Fluid	
Density / Viscosity	
Max. Recorded Temp.	
Estimated Cement Top	
Time Well Ready	
Time Logger on Bottom	
Equipment Number	85, 1 3/8" O.D.
Location	ODESSA, TX
Recorded By	NICK ARCHULETTA
Witnessed By	GREG MCWILLIAMS

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
				2 7/8"		SURF	9612'
				PACKER		9612'	9616'
Casing Record		Size	Wgt/Ft	Top	Bottom		
Surface String							
Prot. String							
Production String		5.5"	23 & 20#	SURF	12483'		
Liner							

<<< Fold Here >>>

All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Comments

LOG SET TO WELL BORE DIAGRAM

PERFORATIONS

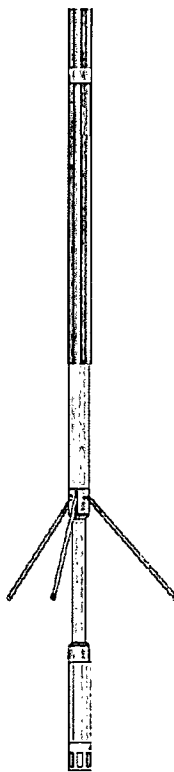
OPEN PERFS: 9648-9666, 12470-12478, 12482-12492
SQZD PERFS: 9765-9767, 9772-9776, 11478-11488, 12436-12474

INJECTION WELL

INJECTION WELL:		SHUT-IN DATE		HOUR	TOTAL S.I. TIME		S.I. PRESS	
METERED INJ. RATE		700 B/D	PRESSURE		VACUUM	TEMP	FLUID TYPE WATER	
TOTAL VOLUME TO DATE				FLUID LEVEL TUBING				
PRODUCER:								
FLOWING		PUMPING		CHOKE SETTING		HOURS PROD.		
FLUID LEVEL CSG.		TBG.		RATE		B/W		B/O
FLUID TYPE								
FRAC OR ACID WELLS:								
TIME FINISHED FRAC OR ACID				ACID %		FLUID - GALS		SAND #
RATE - BPM		PRESSURE						

CONCLUSIONS	
THIS LOG WAS RUN TO DETERMINE ZONES OF INJECTION. NO INDICATION OF PACKER LEAK OR CHANNEL UP. CALIPER SHOWS SIGNS OF SCALE BUILD-UP IN CASING. PROFILE SHOWS 100% OF FLUID MOVING PAST LTD. TEMPERATURES INDICATE: 100% MOVING PAST TD. 100% TUBING RATE: 674 B/D 100% CASING RATE: 665 B/D	

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			1.38CH 1.38" Cable Head	1.00	1.38	2.00
			1.38 Weight Bar 1 3/8"	5.00	1.38	30.00
			TREJCT-PROBE (PROBE_1) 1 3/8" Probe 30cc Ejector	2.50	1.38	10.00
CCL	6.50		CCL-B (1_375)	1.00	1.38	11.00
DET	5.00		TRDET-Probe1 (Probe_1) 1 3/8" Probe Top Gamma	3.42	1.38	15.00

DET#2	0.00		TRDET #2 -Probe2 (Probe_2) 1 3/8" Probe Bottom Gamma	3.42	1.38	15.00
XCAL	-4.08		XYC-3arm (CAL01) GENERIC XY CALIPER	3.42	1.38	20.00
YCAL	-4.08					
TEMP	-5.42		TEMP-Probe (080510) Probe 1 3/8" Temp	1.25	1.38	4.00
Dataset: energy quest fox a state #5, 8-29-14, pit.db: EQ/STATE5/VELOCITY/VELO7 Total Length: 21.00 ft Total Weight: 107.00 lb O.D. 1.38 in						

Company:	
Well:	
File:	C:\Warrior\Data\energy quest fox a state #5, 8-29-14, pit.db
Dataset:	EQ/STATE5/TRACER/_tracer/_shottabl_1

TRACER RESULTS

#	Depth (ft)	Time	Integration	Flow (%)	Delta (%)	Comment
1	9595.00	12:04:00	66876.70	100.00		
2	9621.00	12:04:33	66042.90	100.00	0.00	
3	9633.50	12:05:07	66119.10	100.00	0.00	
4	9650.00	12:05:46	65681.90	100.00	0.00	
5	9653.00	12:06:39	0.15	0.00	100.00	

VELOCITY FROM TRACER

#	Depth (ft)	Time	D Space (ft)	D Time (sec)	Flow (b/d)	Flow (%)	Delta (b/d)	Delta (%)
6	9608	12:04:33	25.25	31.36	699.91	0.00		
7	9627.25	12:05:07	13.00	33.45	699.86	0.00	0.05	0.00
8	9641.75	12:05:46	16.50	36.79	696.88	0.00	2.98	0.00
9	9651.5	12:06:39	0.00	0.00				

Company:	
Well:	
File:	C:\Warrior\Data\energy quest fox a state #5, 8-29-14, pit.db

Dataset: EQ/STATE5/VELOCITY/_tracer/_shottabl_/1
Reference Rate: 663.5 b/d

VELOCITY RESULTS

#	Depth (ft)	Time	D Space (ft)	D Time (sec)	Csg ID (in)	Flow (b/d)	Flow (%)	Delta (%)	Comment
9	9300.00	12:39:28	100.00	50.00	2.10	674.70	100.00		
8	9600.03	12:19:30	5.00	0.00	2.18				PKR CHK
5	9630.00	12:13:49	5.00	9.79	4.75	665.40	100.00	0.00	
4	9640.00	12:12:43	5.00	8.63	4.50	669.71	100.00	0.00	
3	9650.00	12:09:56	5.00	8.77	4.52	666.01	100.00	0.00	
1	9656.00	12:08:43	5.00	7.59	4.23	663.55	100.00	0.00	
2	9659.00	12:08:55	0.00	300.00	3.63	0.00	0.00	100.00	

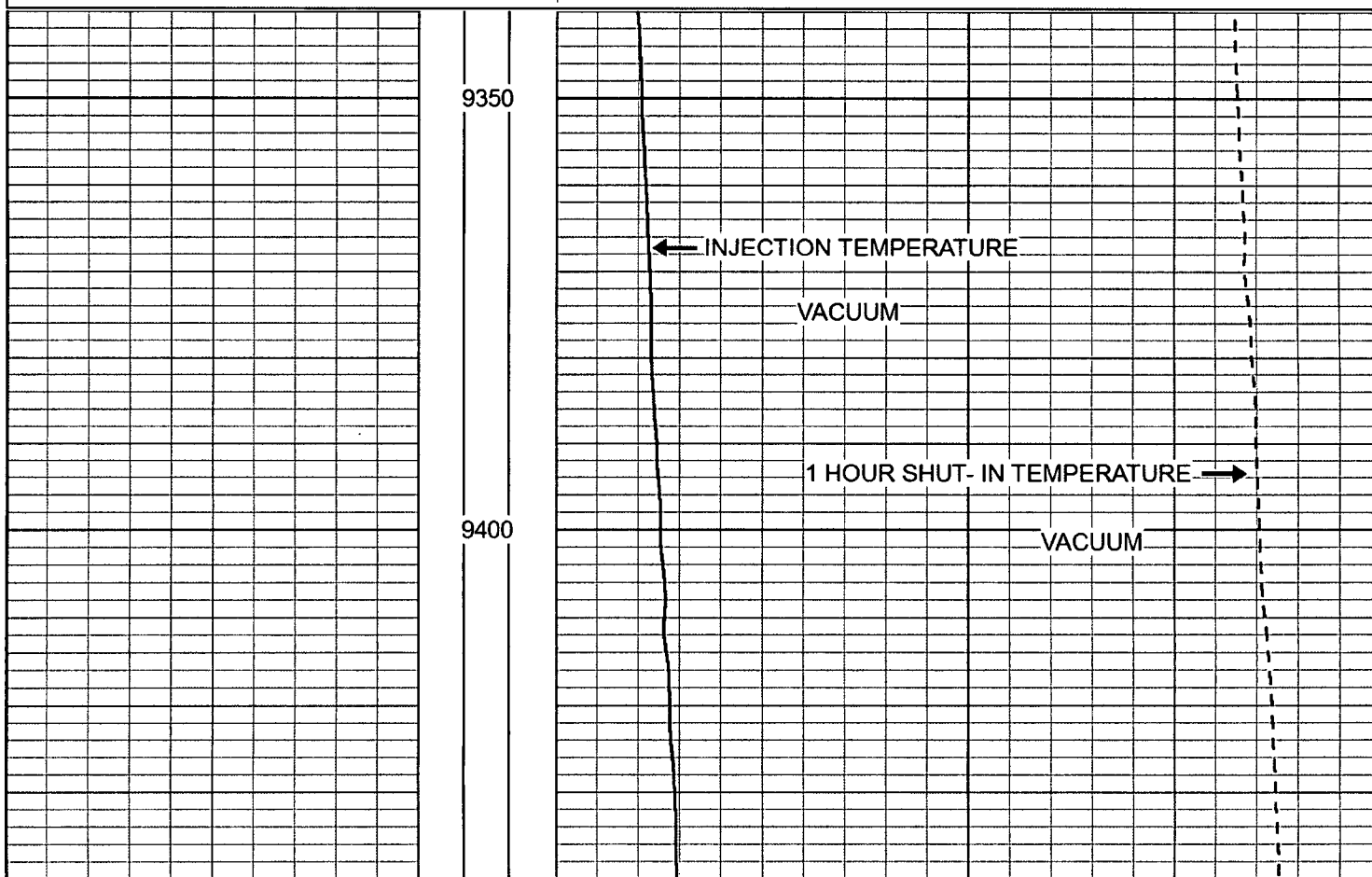
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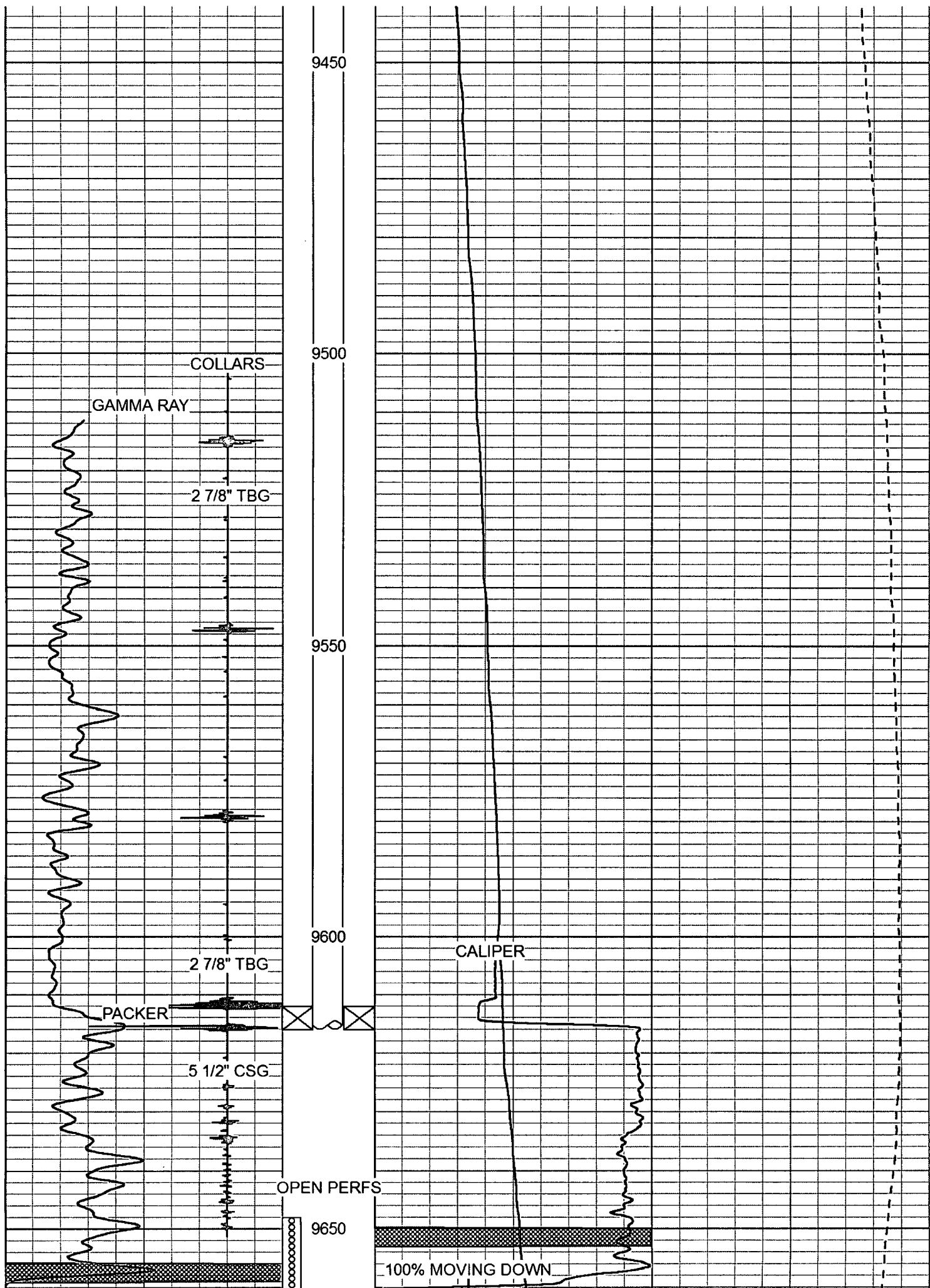
COMPOSITE

Database File: energy quest fox a state #5, 8-29-14, pit.db
Dataset Pathname: EQ/STATE5/VELOCITY/_compos1_
Presentation Format: trccomp
Dataset Creation: Fri Aug 29 12:40:40 2014
Charted by: Depth in Feet scaled 1:240

-8	COLLARS	2
0	GAMMA RAY (GAPI)	100
0	% LOSS VELOCITY (%)	100

0	% LOSS TRACER (%)	100
118	INJECTION TEMPERATURE (degF)	130
118	1 HOUR SHUT- IN TEMPERATURE (degF)	130
0	CALIPER (in)	10





100% MOVING DOWN

NO INDICATION OF PACKER LEAK OR CHANNEL UP.

CALIPER SHOWS SIGNS OF SCALE BUILD-UP IN CASING.

PROFILE SHOWS 100% OF FLUID MOVING PAST LTD.

TEMPERATURES INDICATE: 100% MOVING PAST TD.

9700

9750

-8	COLLARS	2
0	GAMMA RAY (GAPI)	100
0	% LOSS VELOCITY (%)	100

0	% LOSS TRACER (%)	100
118	INJECTION TEMPERATURE (degF)	130
118	1 HOUR SHUT- IN TEMPERATURE (degF)	130
0	CALIPER (in)	10

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TRACER PROFILE

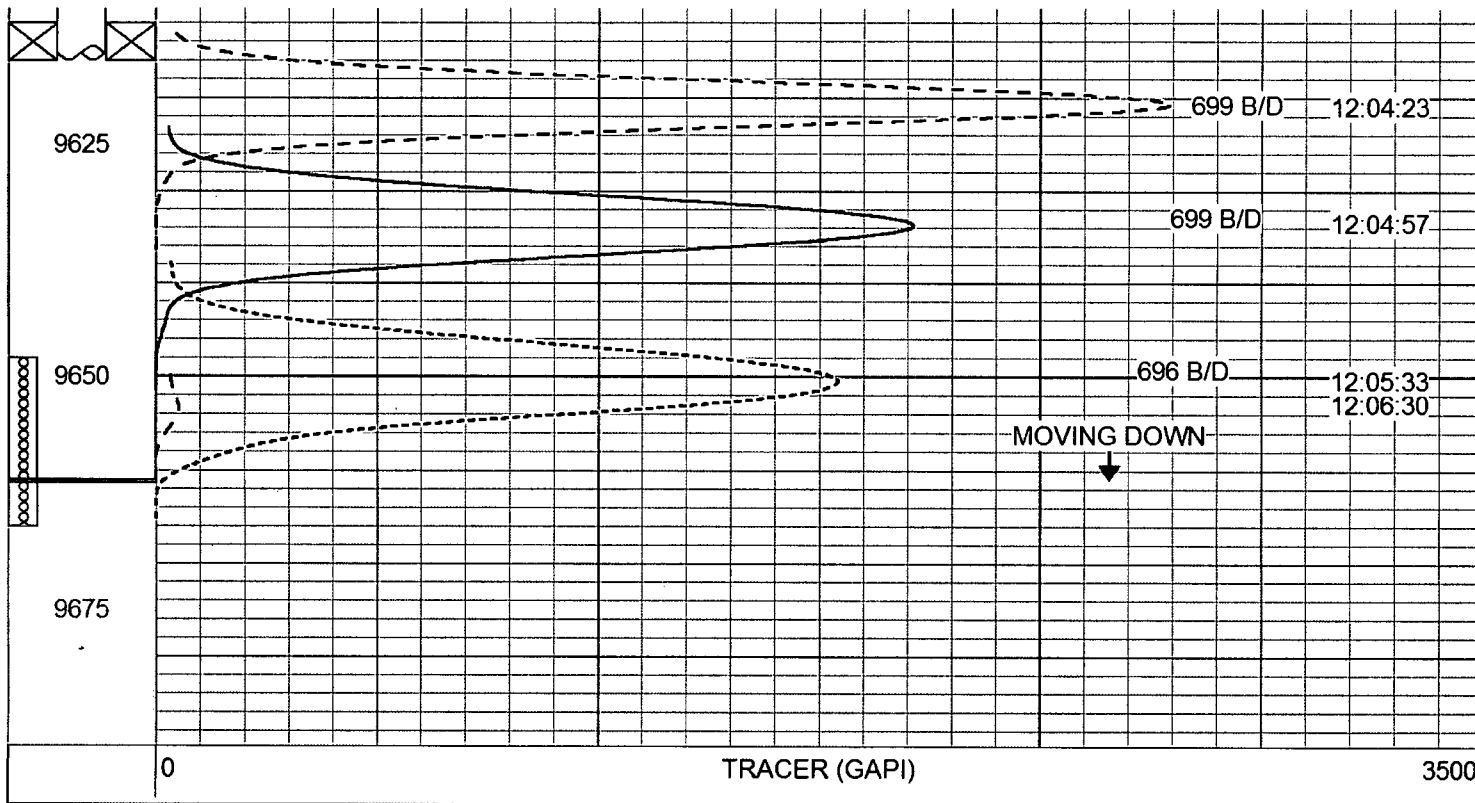
Database File: energy quest fox a state #5, 8-29-14, pit.db
Dataset Pathname: EQ/STATE5/TRACER/_profile1_
Presentation Format: trcprof
Dataset Creation: Fri Aug 29 12:10:33 2014
Charted by: Depth in Feet scaled 1:240

0 TRACER (GAPI) 3500

9575

9600

12:03:52



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TD FLOW CHECK

Database File: energy quest fox a state #5, 8-29-14, pit.db
 Dataset Pathname: EQ/STATE5/VELOCITY/VELO1
 Presentation Format: velo
 Dataset Creation: Fri Aug 29 12:07:17 2014 by Log 7.0 B1
 Charted by: Depth in Feet scaled 1:240

0 TOP DETECTOR (GAPI) 700 ADPTH (ft) 0 BOTTOM DETECTOR (GAPI) 750 -0.5 EJECT 1

				ELTIM (sec)
	9656			84
				82
				80
	9656			79
				77
				75
	9656			73
				71
	9656			69
				67
	9656			65
				63
	9656			61
				59
	9656			57
				56
				54
	9656			52

