

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: X Secondary Recovery Pressure Maintenance Disposal Storage
Application qualifies for administrative approval? X Yes No
- II. OPERATOR: Merit Energy Company
ADDRESS: 13727 Noel Rd. Ste 500 Dallas, TX 75240
CONTACT PARTY: Sustin Findley PHONE: 972-628-1493
- III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection.
Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project? Yes X No
If yes, give the Division order number authorizing the project:
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VII. Attach data on the proposed operation, including:
1. Proposed average and maximum daily rate and volume of fluids to be injected;
 2. Whether the system is open or closed;
 3. Proposed average and maximum injection pressure;
 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
 5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- *VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.
- IX. Describe the proposed stimulation program, if any.
- *X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).
- *XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
- NAME: Kristin Hodge TITLE: Regulatory Analyst
SIGNATURE: Kristin Hodge DATE:
E-MAIL ADDRESS: Kristin.Hodge@meritenergy.com
- * If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted.
Please show the date and circumstances of the earlier submittal:

DATE IN	SUSPENSE	ENGINEER	LOGGED IN	TYPE	APP NO.
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
 - Engineering Bureau -
 1220 South St. Francis Drive, Santa Fe, NM 87505



ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application Acronyms:

[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]
[DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
[PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
[WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
[SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
[EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

[1] TYPE OF APPLICATION - Check Those Which Apply for [A]

[A] Location - Spacing Unit - Simultaneous Dedication
☐ NSL ☐ NSP ☐ SD

Check One Only for [B] or [C]

[B] Commingling - Storage - Measurement
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
☒ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR

[D] Other: Specify _____

[2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or Does Not Apply

[A] ☐ Working, Royalty or Overriding Royalty Interest Owners

[B] ☐ Offset Operators, Leaseholders or Surface Owner

[C] ☐ Application is One Which Requires Published Legal Notice

[D] ☒ Notification and/or Concurrent Approval by BLM or SLO
 U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office

[E] ☐ For all of the above, Proof of Notification or Publication is Attached, and/or,

[F] ☐ Waivers are Attached

[3] SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.

[4] CERTIFICATION: I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Kristin Hodge
 Print or Type Name

Kristin Hodge
 Signature

Regulatory Analyst
 Title

6/19/08
 Date

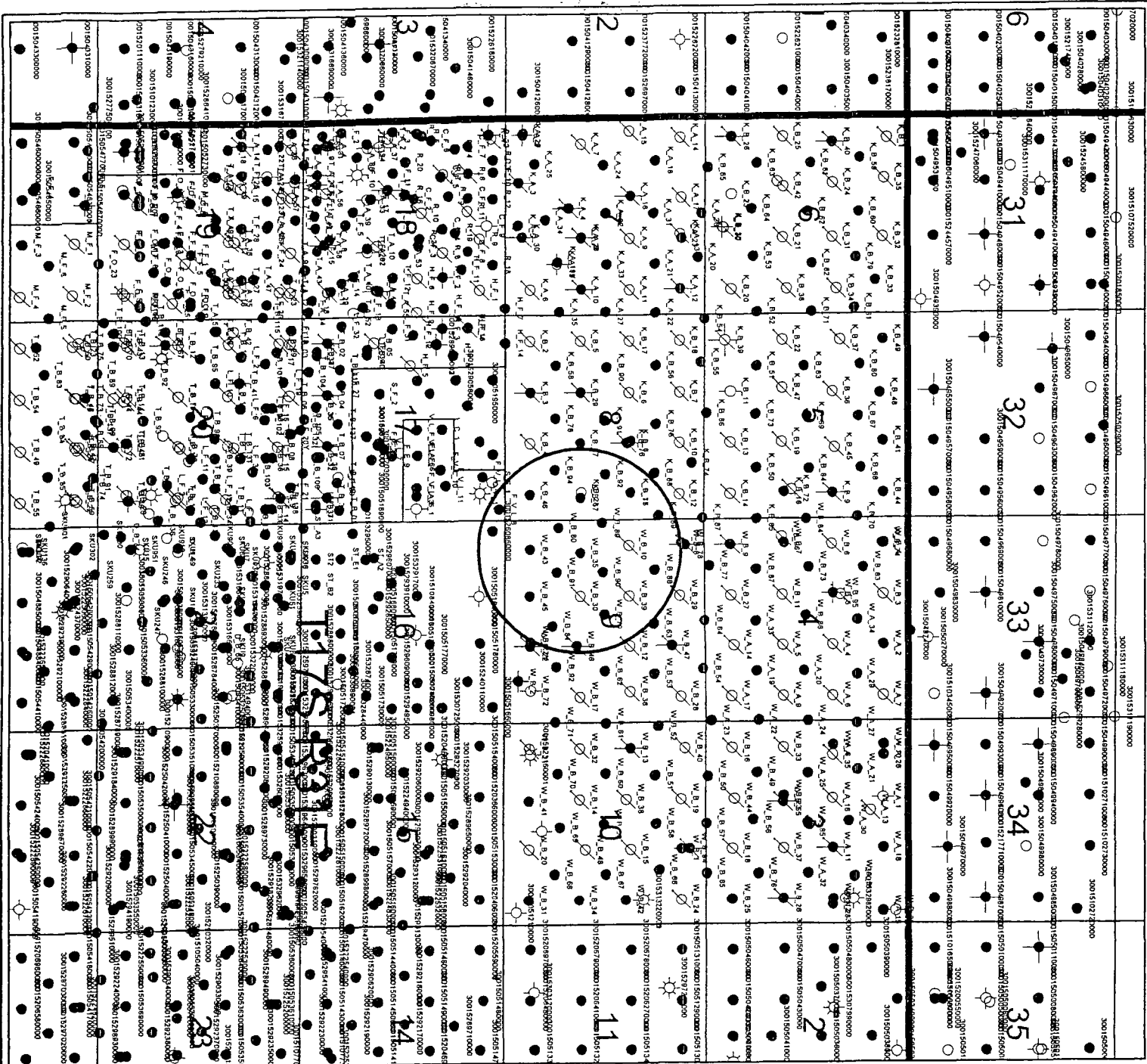
Kristin.Hodge@meritenergy.com
 e-mail Address

Attachment III

Well Data

- A. (1) H.E. West B 35
1,980' FSL & 860' FWL
Unit L
Section 9, T-17-S R-31-E
Eddy, New Mexico
- (2) Casing Data: Also see well bore schematic
Surface: 8 5/8" set @ 460' in a 12 1/4" hole, cmt. with 400sx to surf, determined by CBL
Producing: 5 1/2" set @ 3,815' in a 7 7/8" hole, cmt with 1,00sx HLC & 1300sx class "C" to surf, determined by CBL
Liners: None
- (3) Tubing: 2 7/8", 6.5#, J-55, 8rd EUE set @ 3,680'
- (4) Packer: None
- B. (1) Original Purpose of well: The well was originally drilled, completed and tested as a producer from perforations 3,212' - 3,707' (oil)
- (2) Injection Interval: The injection interval is to be from 3,212' - 3,707'
- (3) Injection Formation: the injection formation will be the Grayburg to the Jackson from 3,212' - 3,707'
- (4) Higher/Lower Oil Zones: The top of the Seven Rivers is at +/- 1,900' and there is no known lower oil zone.

Attachment 12



Well Energy Company
Grayburg Jackson Field
Well Spots
WB35 with 1/2 mile Radius
1874
FEET
By: Arthur Beecherl
May 1, 2008



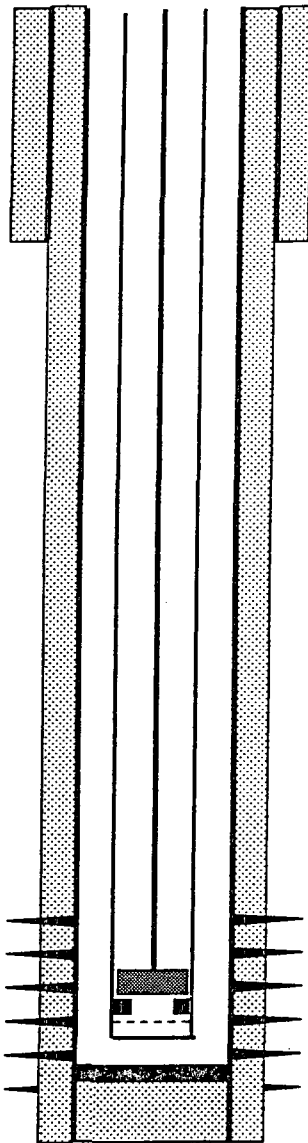
Merit Energy Company
Grayburg Jackson Field
Patterns and Well Spots
AB 35 & KB77 with 1/2 mile R

By: Arthur Beebe
April 30, 2001

MERIT ENERGY COMPANY WELLBORE SCHEMATIC

WELL NAME: H.E. WEST "B" #35		FIELD: GRAYBURG-JACKSON	
LOCATION: 1980' FSL & 860' FWL, SEC 9-T17S-R31E		COUNTY: EDDY	STATE: NM
ELEVATION: GL=3857'; KB=3868'		SPUD DATE: 10/05/88	COMP DATE: 11/10/88
API#: 30-015-25993	PREPARED BY: JUSTIN FINDLEY		DATE: 06/04/08

	DEPTH	SIZE	WEIGHT	GRADE	THREAD	HOLE SIZE
CASING:	0' - 460'	8 5/8"	24#	J-55	ST&C	12 1/4"
CASING:	0' - 3815'	5 1/2"	17#	J-55	LT&C	7 7/8"
CASING:						
TUBING:	0' - 3680'	2 7/8"	6.5#	J-55	EUE 8rd	
TUBING:						



☒ CURRENT ☐ PROPOSED

OPERATOR: MERIT ENERGY COMPANY

8 5/8" CASING @ 460' W/400 SXS. TOC @ SURFACE.

DETAIL OF PERFORATIONS:

LOCO HILLS: 3212', 13', 14', 15', 16', 17', 18', 19', 20', 21', 22', 26', 28', 33'

METEX: 3244', 45', 46', 47', 48', 49', 50', 51', 52', 53', 54', 55', 56', 57',
58', 59', 71', 73', 76', 78', 82', 84', 86', 88'

L.GRAYBURG: 3295', 3301', 11', 12', 19', 20', 21', 40', 41', 42', 43'

PREMIER: 3351', 55', 57', 67', 72', 78', 80'

VACUUM: 3410', 15', 24', 25', 26', 27', 28', 29', 30', 31', 32', 33', 34', 35',
36', 37', 38', 39', 40', 41', 57', 58', 60', 62', 66', 71', 73', 74', 81',
82', 86', 92', 97'

LOVINGTON: 3500', 04', 06', 08', 10', 12', 14', 16', 18', 24', 27', 33', 45',
51', 52'

U.JACKSON: 3555', 58', 63', 67', 71', 72', 74', 78', 81', 86', 89', 95', 99',
3602', 03', 05', 09', 14', 16', 22', 44', 46', 48', 54', 59'

M.JACKSON: 3663', 66', 69', 72', 74', 77', 78', 81', 83', 87', 88', 89', 90', 96',
99', 3701', 04', 07'

M.JACKSON: 3732', 34', 35', 39', 42', 46', 49', 51', 52', 55', 71', 74', 76', 78',
82', 86', 90', 91' (PERFS SQZ'D W/127 SXS)

PERFORATIONS: 3212'- 3707'(OA) - 147 HOLES

SEAT NIPPLE @ 3644'

CEMENT RETAINER @ 3721', PUMPED 127 SXS BELOW RETAINER.

5 1/2" CASING @ 3815' W/1300 SXS. TOC @ SURFACE

TD @ 3815'

H.E West B 35

Attachment VI

Well Name	Location	Spud Date	Completion Date	Type of Well	Depth	Completion Record	Current
H.E. West B 10	1980' FNL & 660' FWL Sec 9, T-17-S; R-31-E	2/23/1953	4/9/1953	Injection	3,623'	8 5/8" @ 642' w/ 100sx TOC 480' 7" @ 3,097' w/ 200sx TOC 1700' 2 1/2" @ 3,300' Perfs @ 3,204' - 3,313'	8 5/8" @ 642' w/ 100sx 7" @ 3,097' w/ 200sx 4 1/2" @ 3,010' 4 1/2" @ 3,612' 2 3/8" @ 2,978' Cmt retainer @ 3,599' Perfs @ 3,085' - 3,588'
H.E. West B 12	1980' FNL & 1980' FEL Sec 9, T-17-S; R-31-E	6/29/1956	9/19/1956	Injection	3,970'	9 5/8" @ 668' w/ 100sx TOC 460' 7" @ 3,158' w/ 200sx TOC 1300' 2 3/8" @ 3,264' Perfs @ 3,202' - 3,861'	9 5/8" @ 668' w/ 100sx TOC 460' 7" @ 3,158' w/ 200sx TOC 1300' 5" @ 3,864' 2 3/8" @ 3,264' Cmt retainer @ 3,645' Perfs @ 3,202' - 3,861'
H.E. West B 30	1980' FSL & 1980' FWL Sec 9, T-17-S; R-31-E	1/19/1966	2/30/1966	Injection	5,952'	8 5/8" @ 552' w/ 300sx TOC surf 4 1/2" @ 3,952' w/ 470sx TOC 1824' 2 2/8" @ 3,120' Perfs @ 3,176' - 3,879' CIBP @ 3810' & 3815'	8 5/8" @ 552' w/ 300sx TOC surf 4 1/2" @ 3,952' w/ 470sx TOC 1824' 2 2/8" @ 3,120' Perfs @ 3,176' - 3,879' CIBP @ 3810' & 3815'
H.E. West B 35	1980' FSL & 860' FWL Sec 9, T-17-S; R-31-E	10/5/1988	11/10/1988	Oil	3,815'	8 58" @ 460' w/ 400sx TOC surf 5 1/2" @ 3,815' w/ 300sx TOC surf Cmt retainer @ 3,721' Perfs @ 3,791' - 3,212'	8 58" @ 460' w/ 400sx 5 1/2" @ 3,815' w/ 300sx 2 7/8" 3,680' Cmt retainer @ 3,721' Perfs @ 3,212' - 3,707'
H.E. West B 39	1980' FNL & 1980' FWL Sec 9, T-17-S; R-31-E	12/13/1988	1/26/1989	Injection	4,000'	8 5/8" @ 488' w/ 350sx TOC surf 5 1/5" @ 3,868' w/ 1150sx TOC surf 2 3/8" @ 3,738' Perfs @ 3,253 - 3,815'	8 5/8" @ 488' w/ 350sx 5 1/5" @ 3,868' w/ 1150sx 2 3/8" @ 3,089' Perfs @ 3,182' - 3,623'
H.E. West B 43	660' FSL & 760' FWL Sec 9; T-17-S; R-31-E	1/20/1989	3/4/1989	Oil	3,831'	8 58" @ 417' w/ 512sx TOC Surf 5 1/2" @ 3,831' w/ 1250sx TOC Surf 2 3/8" @ 3,687' Perfs 3,141' - 3,673'	8 58" @ 417' w/ 512sx TOC Surf 5 1/2" @ 3,831' w/ 1250sx TOC Surf 2 3/8" @ 3,687' Perfs 3,141' - 3,673'

H.E. West B 45	660' FSL & 1980' FWL Sec 9, T-17-S; R-31-E	5/15/1989	5/9/1989 Oil	3,855'	8 5/8" @ 473' w/ 300sx TOC Surf 5 1/2" @ 3,855' w/1000sx TOC Surf 2 7/8" @ 3,749' Perfs 3,190' - 3,728'	8 5/8" @ 473' w/ 300sx TOC Surf 5 1/2" @ 3,855' w/1000sx TOC Surf 2 7/8" @ 3,749' Perfs 3,190' - 3,728'
H.E. West B 46	1880' FSL & 1980' FEL Sec 9, T-17-S; R-31-E	12/21/1990	1/17/1990 Injection	3,938'	8 5/8" @ 541' w/ 325sx TOC Surf 5 1/2" @ 3,938' w/950sx TOC Surf 2 3/8" @ 3,119' Perfs 3,189' - 3,906' CIBP @ 3,770' w/ 10' cmt	8 5/8" @ 541' w/ 325sx TOC Surf 5 1/2" @ 3,938' w/950sx TOC Surf 2 3/8" @ 3,119' Perfs 3,189' - 3,906' CIBP @ 3,770' w/ 10' cmt
H.E. West B 63	1335' FNL & 2555' FEL Sec 9, T-17-S; R-31-E	9/15/1994	3/12/1995 Oil	4,280'	8 5/8" @ 548' w/ 365sx TOC Surf 5 1/2" @ 4,239' w/1125sx TOC Surf 2 7/8" @ 3,170' Perfs 3,189' - 4,151'	8 5/8" @ 548' w/ 365sx TOC Surf 5 1/2" @ 4,239' w/1125sx TOC Surf 2 7/8" @ 3,170' Perfs 3,189' - 4,151'
H.E. West B 80	1410' FSL & 193' FWL Sec 9, T-17-S; R-31-E	11/25/1995	1/12/1996 Oil	4,305'	8 5/8" @ 539' w/ 380sx TOC surf 5 1/2" @ 4,304' w/ 1090sx TOC surf 2 7/8" @ 3,747' Perfs @ 3,017' - 3,676'	8 5/8" @ 539' w/ 380sx 5 1/2" @ 4,304' w/ 1090sx 2 7/8" @ 3,747' Perfs @ 3,017' - 3,678'
H.E. West B 81	1261' FSL & 2508' FWL Sec 9, T-17-S; R-31-E	12/9/1995	12/29/1995 Oil	3,880'	8 5/8" @ 499' w/ 380sx TOC surf 5 1/2" @ 3,879' w/ 1225sx TOC surf 2 7/8" @ 3,814' Perfs @ 3,186' - 3,818'	8 5/8" @ 499' w/ 380sx TOC surf 5 1/2" @ 3,879' w/ 1225sx TOC surf 2 7/8" @ 3,814' Perfs @ 3,186' - 3,818'
H.E. West B 88	1390' FNL & 1310' FWL Sec 9 T-17-S; R-31-E	11/10/1995	12/21/2001 Oil	4,345'	8 5/8" @ 551' w/ 380sx TOC surf 5 1/2" @ 4,344' w/ 1945sx TOC surf 2 7/8" @ 3,943' Perfs @ 3,172' - 3,882'	8 5/8" @ 551' w/ 380sx 5 1/2" @ 4,344' w/ 1945sx 2 7/8" @ 3,551' Perfs @ 3,172' - 3,882'
H.E. West B 89	2552' FSL & 75' FWL Sec 9, T-17-S; R-31-E	7/24/1995	9/27/1995 Oil	4,270'	8 5/8" @ 513' w/ 450sx TOC surf 5 1/2" @ 4,269' w/ 1300sx TOC 2 7/8" @ 4,161' Perfs @ 3,123' - 4,099'	8 5/8" @ 513' w/ 450sx 5 1/2" @ 4,269' w/ 1300sx 2 7/8" @ 4,161' Perfs @ 3,123' - 4,099'
H.E. West B 90	2570' FSL & 1356' FWL Sec 9 T-17-S; R-31-E	11/18/1995	1/8/1996 Oil	4,335'	8 5/8" @ 567' w/ 380sx TOC surf 5 1/2" @ 4,352' w/ 1260sx TOC surf 2 7/8" @ 3,941' Perfs @ 3,160' - 3,892'	8 5/8" @ 567' w/ 380sx 5 1/2" @ 4,352' w/ 1260sx 2 7/8" @ 3,941' Perfs @ 3,160' - 3,892'

H.E. West B 91	1365' FSL & 1360' FWL Sec 9 T-17-S; R-31-E	12/2/1995	1/12/1996 Oil	4,350'	8 5/8" @ 476' w/ 380sx TOC surf 5 1/2" @ 4,349' w/ 1100sx TOC surf 2 7/8" @ 3,908' Perfs @ 3,143' - 3,845'	8 5/8" @ 476' w/ 380sx TOC surf 5 1/2" @ 4,349' w/ 1100sx TOC surf 2 7/8" @ 3,908' Perfs @ 3,143' - 3,845'
J.L. Keel B 25	1980' FSL & 517' FWL Sec 6, T-17-S; R-31-E	4/7/1957	6/11/1957 Injection	3,600'	10 3/4" @ 567' w/ 100sx TOC 220' 7" @ 3,060' w/ 100sx TOC 2285' 2 3/8" @ 2,674' Perfs @ 3,060' - 3,192'	10 3/4" @ 567' w/ 100sx 7" @ 3,060' w/ 100sx 4 1/2" @ 3,600' w/ 475sx TOC surf 2 3/8" @ 2,674' Perfs @ 2,756' - 3,548'
J.L. Keel B 46	660' FSL & 660' FEL Sec 8, T-17-S; R-31-E	4/23/1989	5/31/1989 Oil	3,751'	8 5/8" @ 387' w/ 300sx TOC surf 5 1/2" @ 3,751' w/ 1700sx TOC surf 2 7/8" @ 3,569' Perfs @ 3,050' - 3,674'	8 5/8" @ 387' w/ 300sx 5 1/2" @ 3,751' w/ 1700sx 2 7/8" @ 3,569' Perfs @ 3,050' - 3,674'
J.L. Keel B 75	1274' FNL & 2456' FEL Sec 8, T-17-S; R-31-E	7/25/1995	9/9/1995 Oil	4,160'	8 5/8" @ 480' w/ 500sx TOC surf 5 1/2" @ 4,159' w/ 1775sx TOC surf 2 7/8" @ 4,006' Perfs @ 2,994' - 3,925'	8 5/8" @ 480' w/ 500sx 5 1/2" @ 4,159' w/ 1775sx 2 7/8" @ 4,006' Perfs @ 2,994' - 3,925'
J.L. Keel B 77	1930' FNL & 714' FEL Sec 8, T-17-S; R-31-E	8/2/1995	8/23/1995 Oil	4,000'	8 5/8" @ 532' w/ 380sx TOC surf 5 1/2" @ 3,999' w/ 2000 sx TOC surf 2 7/8" @ 3,897' Perfs @ 3,091' - 3,820'	8 5/8" @ 532' w/ 380sx 5 1/2" @ 3,999' w/ 2000 sx 2 7/8" @ 3,934' Perfs @ 3,091' - 3,820'
J.L. Keel B 87	40' FNL & 40' FEL Sec 8, T-17-S; R-31-E	8/20/1995	10/15/1995 Oil	4,227'	8 5/8" @ 315' w/ 380sx TOC surf 5 1/2" @ 4,274' w/ 1500 sx TOC surf 2 7/8" @ 4,108' Perfs @ 3,113' - 4,069'	8 5/8" @ 315' w/ 380sx 5 1/2" @ 4,274' w/ 1500 sx 2 7/8" @ 4,145' Perfs @ 3,113' - 4,069'
J.L. Keel B 88	1310' FNL & 1200' FEL Sec 8, T-17-S; R-31-E	7/18/1995	9/3/1995 Oil	4,240'	8 5/8" @ 440' w/ 490sx TOC surf 5 1/2" @ 4,239' w/ 1800 sx TOC surf 2 7/8" @ 4,048' Perfs @ 3,128' - 3,991'	8 5/8" @ 440' w/ 490sx 5 1/2" @ 4,239' w/ 1800 sx 2 7/8" @ 4,017' Perfs @ 3,128' - 3,991'

J.L Keel B 89	1194' FNL & 100' FEL Sec 8, T-17-S; R-31-E	8/11/1995	9/27/1995 Oil	4,290'	8 5/8" @ 519' w/ 500sx TOC surf 5 1/2" @ 4,289' w/ 1540 sx TOC surf 2 7/8" @ 4,127' Perfs @ 3,177' - 4,033'	8 5/8" @ 519' w/ 500sx 5 1/2" @ 4,289' w/ 1540 sx 2 7/8" @ 4,064' Perfs @ 3,177' - 4,033'
J.L Keel B 92	2630' FSL & 1182' FEL Sec 8, T-17-S; R-31-E	7/15/1995	8/11/1995 Oil	4,265'	8 5/8" @ 478' w/ 350sx TOC surf 5 1/2" @ 4,164' w/ 1300 sx TOC 185' 2 7/8" @ 4,103' Perfs @ 3,041' - 3,972'	8 5/8" @ 478' w/ 350sx 5 1/2" @ 4,164' w/ 1300 sx 2 7/8" @ 4,037' Perfs @ 3,041' - 3,972'
J.L Keel B 94	1309' FSL & 1299' FEL Sec 8, T-17-S; R-31-E	7/6/1995	7/29/1995 Oil	4,220'	8 5/8" @ 468' w/ 350sx TOC surf 5 1/2" @ 4,219' w/ 2050 sx TOC 100' 2 7/8" @ 3,987' Perfs @ 2,975' - 3,878'	8 5/8" @ 468' w/ 350sx 5 1/2" @ 4,219' w/ 2050 sx 2 7/8" @ 3,987' Perfs @ 2,975' - 3,878'

Attachment VII

Proposed Operation

1. Average daily injection rate: 200 BWPD
Maximum daily injection rate: 400 BWPD
2. Type of system: Open
3. Average injection pressure: 2,000 psi
Maximum injection pressure: 2,500 psi
4. Source of injection water: Re-injection the wells produced water
5. N/A

Attachment VIII

Lithology – Dolomite

Geologic Name – Grayburg Jackson, (Loco Hills, Metex, Lower Grayburg, Premier, Vacuum, Lovington, Upper Jackson, Middle Jackson, Lower Jackson

Thickness – Gross footage 500'

Depth – 3,212' – 3,707'

Water Information – N/A

Attachment IX

Please see attached stimulation program.

Attachment X

Included in this packet is a copy of a scanned Neutron Log.

Attachment XI

There is no fresh water around this area.

Attachment XII

This is not an application for a disposal well, so no affirmative statement is needed.

H-t-t-u-m-m-e-r-11 1/1

Date: April 28, 2008
Well: West B #35
API: 30-015-25993
Field: Grayburg-Jackson
Location: 1980'FNL & 860'FWL, SEC 9-T17S-R31E
Eddy County, NM
Formation: Grayburg-Jackson
Elevation: GL = 3,857'
KB = 3,868'
TD = 3,815'
Engineer: Justin Findley

Subject: Injection Conversion

CURRENT WELLBORE:

Tubing: 2-7/8" 6.5# J-55 EUE 8rd 0'-3,456'
Casing: 5-1/2" 17# J-55 LT&C 0 - 3,815' cemented w/1300 sx. TOC @ surface
8-5/8" 24# J-55 ST&C 0 - 460'
TAC: 3,107'
SN: 3,423'
CIBP: +/- 3,710'
Perforations: Current gross interval (3,212' - 3,707')
See well-bore schematic for details.

Procedure

1. MIRU pulling unit. POOH w/rods and pump. NU BOP with 2-7/8" pipe rams on top.
2. Tag PBTD and strap out.
3. MIRU wireline unit. RIH w/CCL and log 3,000' to 3,710' and correlate with Schlumberger CBL dated 10/19/1988.
4. TIH w/3.125" slick gun (38.87" penetration, 0.40" entry hole, 90 degree phasing) and perforate the following zones at the specified shot density:

4 SPF 3,216' - 3,222'
4 SPF 3,251' - 3,252'
4 SPF 3,255' - 3,258'
4 SPF 3,341' - 3,343'
4 SPF 3,430' - 3,431'
4 SPF 3,437' - 3,439'
4 SPF 3,509' - 3,511'
4 SPF 3,663' - 3,665'

4 SPF 3,687' - 3,690'

(127' Gross, 22' Net, 128 shots)

5. POOH, record any fluid level change and guns for misfires. RDMO wireline unit.
6. Pick up 5-1/2" Baker AD-1 packer on 2-3/8" IPC tubing, TIH while hydro-testing. Set packer at +/- 3,150' (62' above top perf). Load and pressure test annulus to 500 psig. Pick up swabbing tools, swab for entry and monitor fluid levels while swabbing back. RD swabbing tools.
7. MIRU acid company and rig up. Pressure test and hold 500# on annulus with pump truck. Pressure test lines to 3000 psig with maximum treating pressure established 2,500 psig.
8. Establish injection rate and pressure into perforated interval from 3,212' to 3,707' with 2% KCl followed by 7,000 gallons (47gal/ft) of solvent that is 90% by volume 15% HCL and 10% by volume toluene along with 10,000# of rock salt to divert. .

15% HCL	6300 gal
Toluene	700 gal
Clay Stabilizer	
ACI-166	3.75 gal
NE-116	7.5 gal
NE-122	7.5 gal
FE Reducer	14.75 gal
Rock Salt	10,000 lbs

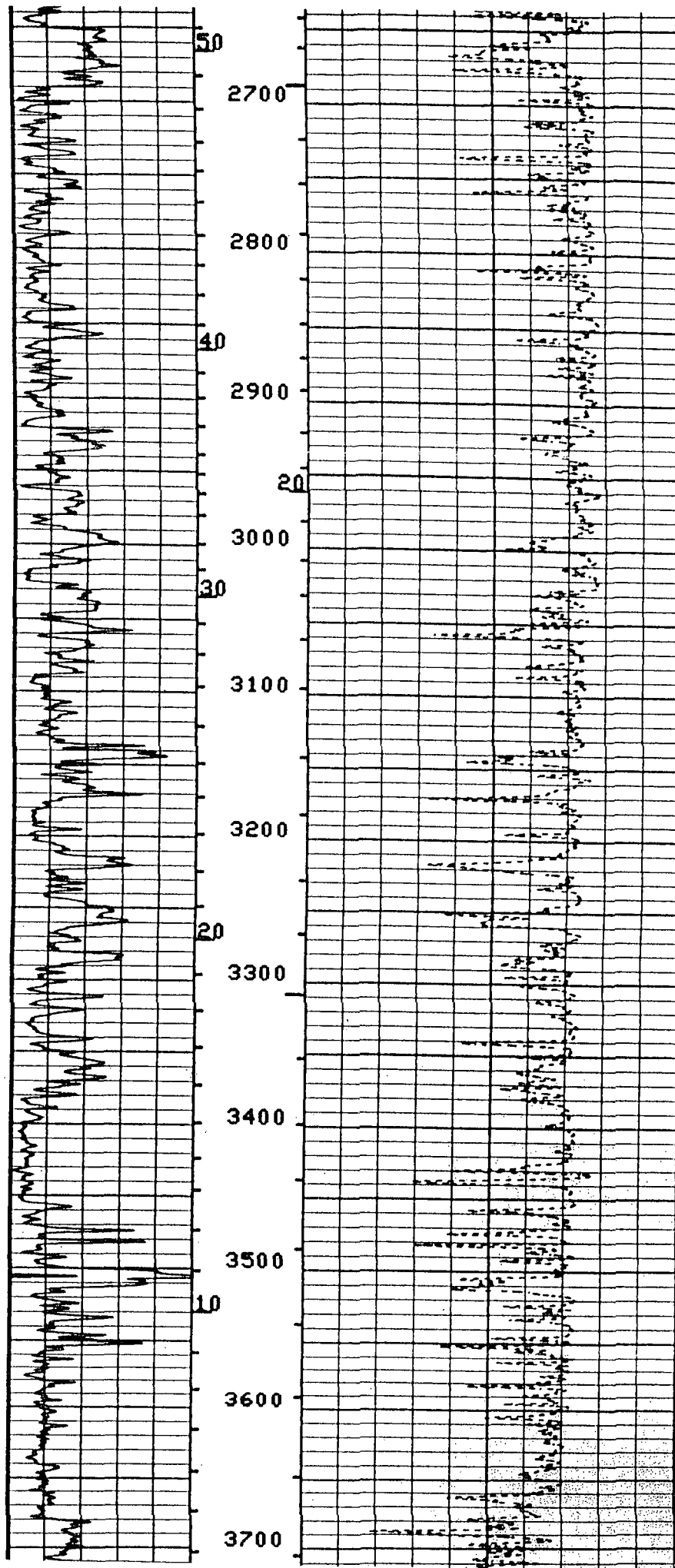
9. RDMO treating company.
10. Return well to injection.

Contacts

Operations Manager:	David Hertel	(806) 229-6300 - Office
Foreman:	Jackey Williams	(806) 789-5718 - Cell
Region Manager:	Cruz Abila	(972) 628-1552 - Office
Ops. Engineer:	Justin Findley	(972) 628-1493 / (214) 577-9784

Attachment X

WB 35



CHANGED PARAMETERS

NAME	VALUE	UNIT	DEPTH (F)	NAME	VALUE	UNIT	DEPTH (
BHS	CASE		450.0				

DUMM		NPHI	
-1.000	1.0000	.30000	-.1000
GR (GAPI)		NPHI	
-100.0	100.00	.70000	.30000
GR (GAPI)		DUM2	
0.0	200.00	-1.000	

WB 35

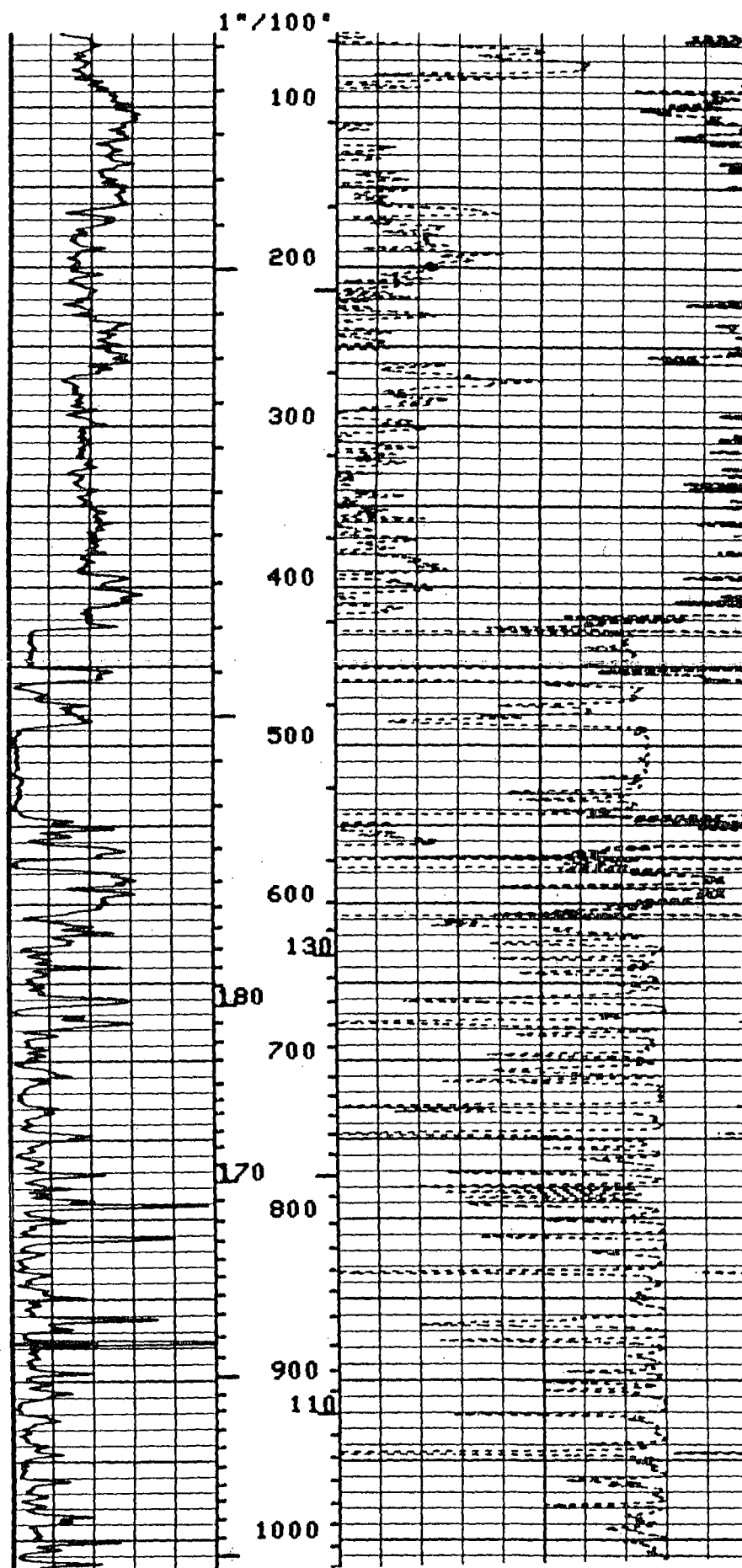
CP 30.4A

FILE 13

13-OCT-88 09:12

INPUT FILES
11

DATA ACQUIRED
13-OCT-88 08:43



Attachment XIII

Proof of Notice

Merit Energy Company is the operator of all wells within the area of review. The Bureau of Land Management is the surface owner. They have been notified by BLM Sundry Notice (3160-5).

Proof of Publication

Please see the following page.