

MERRION OIL & GAS CORPORATION

610 REILLY AVE. • P. O. Box 840

FARMINGTON, NEW MEXICO 87499

May 30, 1990

Mr. Mike Stogner
New Mexico Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87501

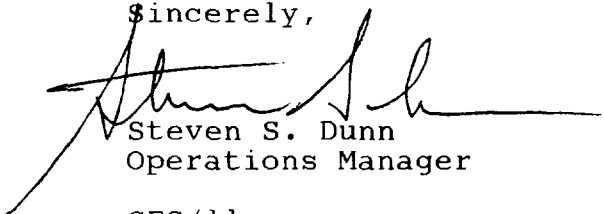
RE: C-108 Injection Permit Application
Media Entrada Unit #3
Section 14, T19N, R3W
Sandoval County, New Mexico

Dear Mr. Stogner:

We are planning on converting the Media Entrada Unit #3 to injection to expand an existing secondary recovery waterflood in the Entrada formation. Attached is a Form C-108 for the proposed conversion.

If additional information is required, please contact Mr. George Sharpe at (505) 327-9801.

Sincerely,

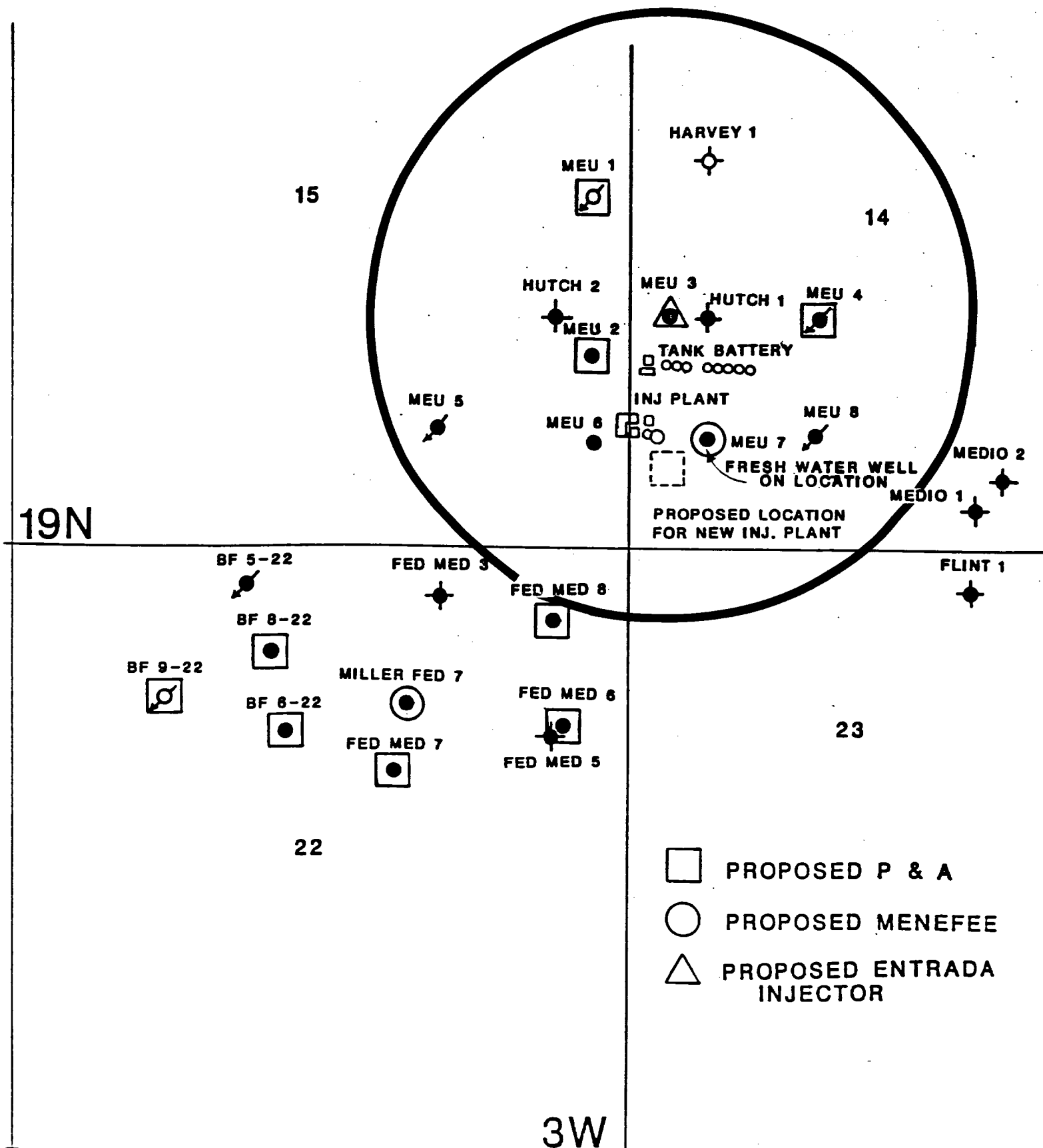


Steven S. Dunn
Operations Manager

GFS/lis

CC: Well File
Dan Wood-BLM, Albuquerque, NM
Frank Chavez-NMOCD, Aztec, NM
Lasrich Company-Sandy, Utah
Cherry Dental Service, Ltd.-Decatur, Georgia
Pat Hegarty

PROPOSED WELLWORK MEDIA FIELD



APPLICATION FOR AUTHORIZATION TO INJECT

- I. Purpose: ☒ Secondary Recovery ☐ Pressure Maintenance ☐ Disposal ☐ Storage
Application qualifies for administrative approval? ☐ yes ☐ no

II. Operator: Merrion Oil & Gas Corporation

Address: P. O. Box 840, Farmington, New Mexico 87499

Contact party: George F. Sharpe

Phone: (505) 327-9801

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 ☐ no

If yes, give the Division order number authorizing the project R-5017

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 geological data on the injection zone including appropriate lithologic detail, geological 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 source 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 source 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: George F. Sharpe

Title: Reservoir Engineer

Signature: George F. Sharpe

Date: May 24, 1990

* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be duplicated and resubmitted. Please show the date and circumstance of the earlier submittal.

FORM C-108
OIL CONSERVATION DIVISION

Media Entrada Unit #3
Application for Authorization to Inject

5/24/90

- I. Secondary Recovery Project
- II. Merrion Oil & Gas Corporation
P. O. Box 840, Farmington, New Mexico 87499
Contact: George Sharpe (505) 327-9801
- III. Well Data Sheet Attached for Media Entrada Unit #3
- IV. Expansion of Existing Project (NMOCD Order R-5017)
- V. Map Attached
- VI. Well Data Summary Sheet Attached
Wellbore Schematics Attached
- VII. Operating Data:
- 1) Average injection rate = 1500 BPD
Maximum injection rate = 3000 BPD
 - 2) Closed system = (ie. reinjection of produced water).
However, tanks vented to atmosphere.
 - 3) Average injection pressure = 500 psi
Maximum injection pressure = 1000 psi
 - 4) Reinjection of Entrada produced water - TDS = 17800
ppm, analysis attached
- VIII. Geologic Information
- Top Entrada: 5218'
Thickness: +- 200'
Lithology: ss, grey-white, medium-coarse grained,
subround-rounded, friable, porous
- Overlying Aquifers: Mesaverde Formation +- 390' top
Morrison Formation +- 4450' top.
(Although these are not used for drinking water in
the area, the TDS is less than 10,000 ppm).
- Underlying Aquifer: None

FORM C-108 OIL CONSERVATION DIVISION
Page Two
May 24, 1990

- IX. No stimulation planned.
- X. Existing Well - Logs previously submitted and on file at district office.
- XI. A Mesaverde water well on same location as Media Entrada Unit #7 is used for ranching. Well is currently inactive, so no water analysis available.
- XII. Extensive seismic data acquired in this field would suggest no fault communication between any stratigraphic horizon.
- XIII. Proof of Notice Attached
- XIV. Certification - Signed on Original

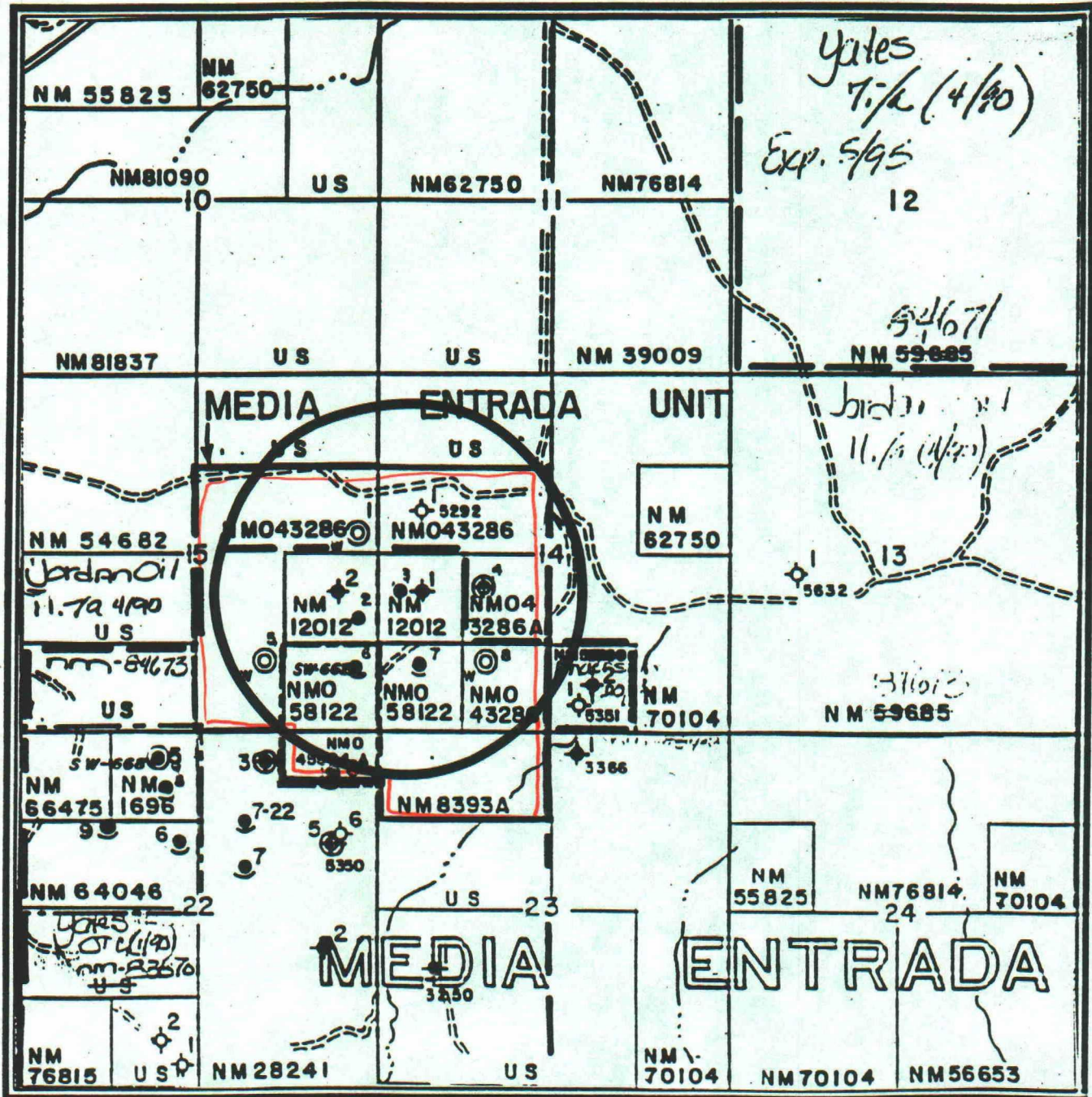
MEDIA ENTRADA #3

MEDIA FIELD

Area of Review
Sandoval County, NM

R 3 W

T
1
9
N



Side 1

INJECTION WELL DATA SHEET

SIDE 1

<u>OPERATOR</u>		<u>LEASE</u>	
Merrion Oil & Gas Corporation		NM 12012	
<u>WELL NO.</u>	<u>FOOTAGE LOCATION</u>	<u>SECTION</u>	<u>TOWNSHIP</u> <u>RANGE</u>
Media Entrada Unit #3	1980' FSL, 330' FWL	Sec 14	19N 3W

Schematic

Tubular Data

Attached

Surface Casing

Size 10 3/4" Cemented with 140 oz.
 TOC Surf feet determined by circulation
 Hole size 15"

Intermediate Casing

Size 7" Cemented with 300 oz.
 TOC 3340' feet determined by calculation
 Hole size 8 3/4"

Line string

Proposed liner
to surface

Size 4 1/2" Cemented with 600 oz.
 TOC Surf feet determined by circulation
 Hole size 7" casing
 Total depth 5351'

Injection interval

5220' (feet to 5230' feet perf'd
 (perforated or open-hole, indicate which)

INJECTION WELL DATA SHEET

Side 2

INJECTION WELL DATA SHEET -- SIDE 2

Tubing size 2 3/8" lined with plastic coated set in a
 (material)
Baker lockset retrievable packer at 5150' feet
 (brand and model)
 (or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation Entrada
2. Name of field or Pool (if applicable) Media Entrada
3. Is this a new well drilled for injection? ☐ Yes ☒ No
 If no, for what purpose was the well originally drilled? Entrada Producer
4. Has the well ever been perforated in any other zone(s)? list all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) no
5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
Undesignated Mesaverde - 390' top
Media Gallup - 2800' top

MEDIA ENTRADA UNIT NO. 3
PRESENT WELLBORE SKETCH
8/3/89

15" Hole Size

Mesaverde
Csg Leaks
556-590
1000-1327

8-3/4" Hole Size

Gallup
Csg leaks
2562-3225

TOC @ 3,340'

10-3/4", 40#/ft cmt'd w/
140 SX
217'

7", 20 and 23#/ft,
cmt'd w/ 300 sx (bottom 601' is
23#)

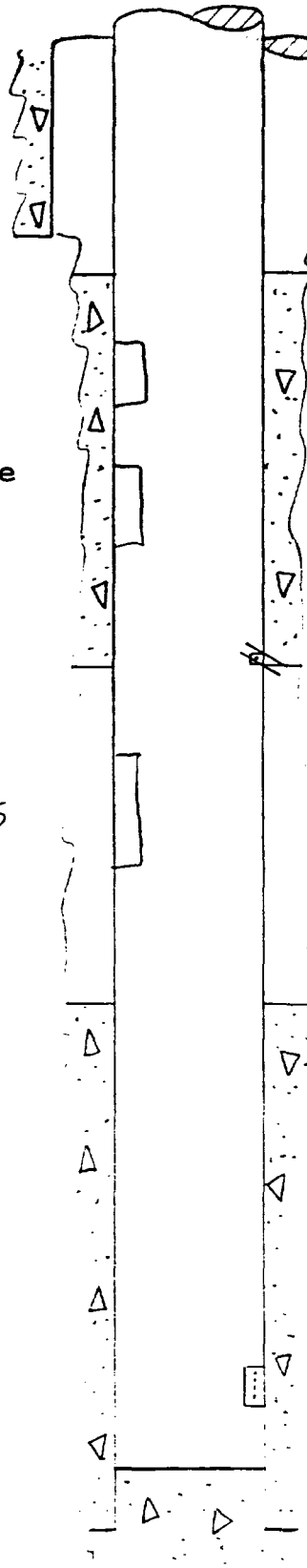
1,786' - 1,817' csg leak sqz'd
w/ 150 sxs Cl "G" + 6% gel (247
ft³) and 150 sx Cl "G" w/ 1% D65
+ 1% CaCl (163 ft³)

2 Sqz holes @ 2,240'

Entrada perfs
5,206' - 54' (96 holes)

PBTD @ ± 5,300'

7" @ 5,340'
TD @ 5,351'



MEDIA ENTRADA UNIT NO. 3
FUTURE WELLBORE SKETCH
8/3/89

GFS
5-21-90

1980 FSL 330' FWL
Sec 14 19N 3W
Sandoval Co, NM

KB - 6842'
GL - 6825'

Formation Tops:

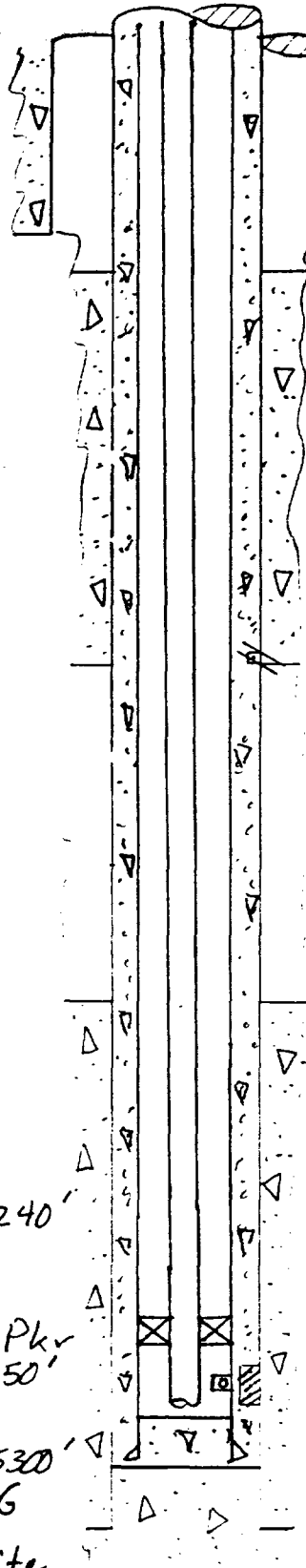
Mesavende 380'
Gallup 2790'
Dakota 4202'
Morrison 4456'
Entrada 5218'

TOC @ 3,340'

2 3/8" P.L. +bg @ 5240'

Lockset Retrievable Pkr
@ ± 5150'

4 1/2" 10.5# csg @ 5300'
Cement w/ 600 sx, G
w/ .75% D65
5 #/sk gilsonite



15" hole
10-3/4", 40#/ft cmt'd w/
140 sx

217'

8 3/4" hole

7", 20 and 23#/ft,
cmt'd w/ 300 sx (bottom 601' is
23#)

1,786' - 1,817' csg leak sqz'd
w/ 150 sxs Cl "G" + 6% gel (247
ft³) and 150 sx Cl "G" w/ 1% D65
+ 1% CaCl (163 ft³)

2 Sqz holes @ 2,240'

New Entrada Perfs:
5220-30

Old Entrada perfs - Squeezed
5,206' - 54' (96 holes)

PBTD @ ± 5,300' 5260'

7" @ 5,340'

TD @ 5,351'

4 1/2" capacity = .0895 ft³/ft

4 1/2"-7" annulus = .1106 ft³/ft

MERRION OIL & GAS CORPORATION

MEDIA ENTRADA UNIT NO. 3

CONVERSION TO INJECTION

LOCATION: 1980' FSL & 330' FWL ELEVATION: 6842' KB
Section 14, T19N, R3W 6825' GL
Sandoval County, New Mexico

PREPARED BY: George Sharpe DATE: 5/21/90

- 1) MIRU. NU BOPs. Pick up and RIH with $\pm$ 5300' of Plastic Coated 2-3/8", 4.7#, EUE tubing. Tag PBTD at 5300'.
- 2) Pull to 5260'. Spot cement plug w/40 sx Class "G" with 2% CaCl from 5260' to 5060'. Pull to 5050' and reverse clean. Squeeze away small volume of cement at low pressure to seal off perforations. WOC.
- 3) POOH. RIH with 6-1/8" bit and DOC. Clean out hole to 5300' PBTD. POOH.
- 4) Pick up and RIH with 4-1/2" casing guide, 1 joint of 4-1/2", 10.5#, J-55 casing, 4-1/2" float collar, and 5260' of 4-1/2" casing. Land at PBTD. (7" ID = 6.241, 4-1/2" casing coupling = 5.93", annular capacity = .1106 ft³/ft.)
- 5) Establish circulation. Cement liner with 600 sx Class "G" with 0.75% D65 friction reducer and 2#/sk gilsonite lost circulation material (15.6 ppg, 1.19 cu ft/sk). Drop wiper plug and displace with $\pm$ 103 bbls water. WOC.
- 6) If no cement returns to surface, run temperature log to determine top of cement. Perforate and squeeze as necessary.
- 7) RIH with 4-1/2" casing scraper on 2-3/8" PC tubing. Clean out hole to float collar.
- 8) Pull to 5200'. Spot 500 gal 15% HCl down tubing. POOH.
- 9) Run GR-CCL log for correlation. RIH with 3-1/8" casing guns and perforate 5220'-30' with 4 SPF (10-22-71 GR-Density Log). POOH.
- 10) Bullhead acid away down casing with $\pm$ 50 bbl produced water.
- 11) RIH with 2-3/8" mule shoe, XN nipple, 3 joints tubing, and 4-1/2" Lockset retrievable packer on 2-3/8" PC tubing. Set packer at $\pm$ 5150' (tubing tail should extend at least 10' below perfs).

- 12) Test casing to 1000 psi. Release packer and circulate inhibited packer fluid. Set packer and test casing to 1000 psi for 15 minutes for UIC test. Record results on round chart. (Notify NMOCD 24 hours prior to UIC test.)
- 13) Nipple down BOPs. NU Tree. RDMOL.

GFS/eg

APPROVED: _____

DATE: _____

Unichem International

707 North Leech

P.O.Box 1499

Hobbs, New Mexico 88240

Company : MERRION OIL & GAS

Date : 01-09-1990

Location: Media - Entrada #6 (on 9-13-89)

	<u>Sample 1</u>
Specific Gravity:	1.013
Total Dissolved Solids:	17838
pH:	7.50
IONIC STRENGTH:	0.351

<u>CATIONS:</u>		<u>me/liter</u>	<u>mg/liter</u>
Calcium	(Ca ⁺²)	14.4	288
Magnesium	(Mg ⁺²)	8.80	107
Sodium	(Na ⁺¹)	256	5890
Iron (total)	(Fe ⁺²)	0.014	0.400
Barium	(Ba ⁺²)	0.003	0.200

<u>ANIONS:</u>			
Bicarbonate	(HCO ₃ ⁻¹)	7.20	439
Carbonate	(CO ₃ ⁻²)	0	0
Hydroxide	(OH ⁻¹)	0	0
Sulfate	(SO ₄ ⁻²)	116	5550
Chloride	(Cl ⁻¹)	157	5560

SCALING INDEX (positive value indicates scale)

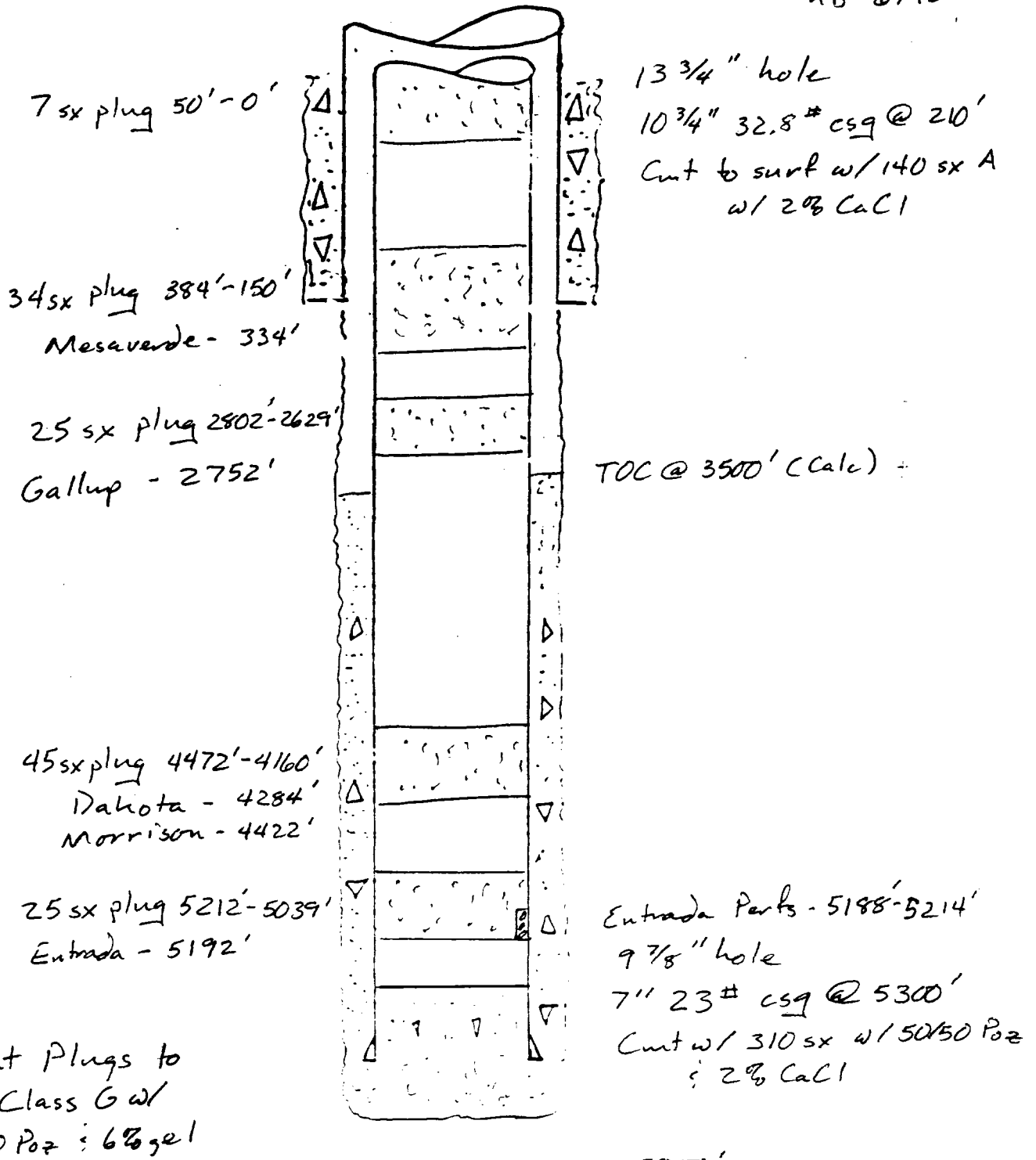
<u>Temperature</u>		<u>Calcium</u>	<u>Calcium</u>
		<u>Carbonate</u>	<u>Sulfate</u>
86°F	30°C	0.21	-9.4
120°F	49°C	1.1	-9.4

Media Entrada Unit #1 Proposed Plug & Abandonment

GFS
5-22-90

2310' FNL 330' FEL
Sec 15, 19N, 3W

GL-6781'
KB-6795'



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—" for such proposals.)

1. ☐ OIL WELL ☐ GAS WELL ☐ OTHER Salt Water Disposal		7. UNIT AGREEMENT NAME Media Entrada Unit
2. NAME OF OPERATOR Merrion Oil & Gas Corporation		8. FARM OR LEASE NAME Media Entrada Unit
3. ADDRESS OF OPERATOR P. O. Box 840, Farmington, New Mexico 87499		9. WELL NO. 1
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 2310' FNL & 330' FEL		10. FIELD AND POOL OR WILDCAT Media Entrada
14. PERMIT NO.		11. SEC., T., R., M., OR S.E. AND SURVEY OR AREA Sec. 15, T19N, R3W
15. ELEVATIONS (Show whether OF, RT, GR, etc.) 6781' GL		12. COUNTY OR PARISH Sandoval
		13. STATE New Mexico

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐FRACTURE TREAT ☐SHOOT OR ACIDIZE ☐REPAIR WELL ☐(Other) ☐PULL OR ALTER CASING ☐MULTIPLE COMPLETION ☐ABANDON* ☒CHANGE PLANS ☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐FRACTURE TREATMENT ☐SHOOTING OR ACIDIZING ☐(Other) ☐REPAIRING WELL ☐ALTERING CASING ☐ABANDONMENT* ☐

NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.

17. DESCRIBE PROMISED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

The subject well is a shut-in Entrada injector. We no longer need it for injection and it has no uphole potential. Therefore, we request your approval to plug and abandon the well. Attached is a procedure for your review. We hope to complete the plugging job in June of this year.

18. I hereby certify that the foregoing is true and correct

SIGNED

George F. Sharpe
George F. Sharpe

TITLE

Reservoir Engineer

DATE

5-2-90

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See instructions on Reverse Side

MERRION OIL & GAS CORPORATION

MEDIA ENTRADA UNIT NO. 1

PLUG & ABANDON PROCEDURE

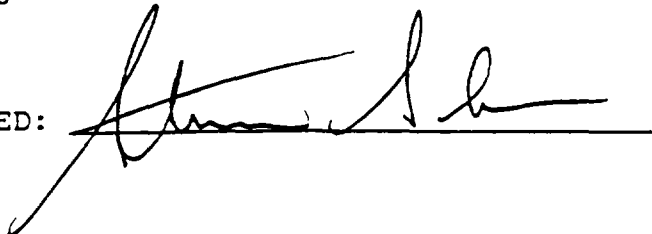
LOCATION: 2310' FNL & 330' FEL ELEVATION: 6795' KB
Section 15, T19N, R3W 6781' GL
Sandoval County, New Mexico

PREPARED BY: George F. Sharpe *AFS* DATE: 4/30/90

1. MIRU. ND WH. Nipple up BOPs. Release 7" Baker A-2 Lockset packer. POOH and stand back 5140' of 2-7/8" Internal Coated tubing.
2. RIH to PBTD at 5212'. Roll hole with 9.0 ppg mud.
3. Spot cement plug across Entrada from 5212' to 5039' with 25 sx cement. WOC. Tag cement top.
4. Pull up to 4472'. Spot cement plug across Morrison and Dakota tops from 4472' to 4160' with 45 sx.
5. Pull up to 2802'. Spot cement plug across Gallup top from 2802' to 2629' with 25 sx.
6. Pull up to 384'. Spot plug across Mesaverde and casing shoe from top 384' to 150' with 34 sx.
7. Pull up to 50'. Spot plug to surface with 7 sx.
8. Bullhead 10 sx ($\pm 60'$) into 7" - 10-3/4" annulus. Cut off casing and install P&A marker. Restore location.

* All cement to be Class "G" with ^{50/50} 50% Poz; yield = 1.57^{43} sack.
+ 6% gel

GFS/eg
5/01/90

APPROVED: 

DATE: 5-9-90

MEDIA ENTRADA FIELD
(FLUID POWER PUMP CO.)

DATUM 6795' [KB] G.L. ELEV. 6781' TO 5300' POSTED 5212' [CMT]

[illegible]

OPT

DATA AVAILABLE	DST ☐	PVT ☐
	CORE ☐	OTHER ☐

REMARKS: Converted to SWD 8-17-75. Commenced water injection 11-12-75.

Casing Cement - 2277 P13/0L

Media Entrada Unit #2
Proposed IP & A

GFS
5-22-90

1610' FSL 330' FEL
Sec 15, 19N, 3W
Sandoval Co, NM

KB 6621'
GL 6807'

75x plug —
50' - Surf

13 3/4" hole
10 3/4" csg @ 208'
Cmt to surf w/ 140sx
A w/ 3% CaCl

35 x plug 400'-158'
Top Mesaverde 350' -

25 s/v plug 2810' - 2637'
Top Gallup 2760' -

25sx plug 4220'-4047'
Top Dakota 4170'

25 sq plug 4484' - 4311'
Top Morrison 4434' -

255x plug 5290'-5117'
Top Entrada 5218' -

2200'
5g2 w/ 300sx

Entrada Parts 5218-40'

8 3/4" hole
7" 20:23 # csq @ 5320'
Cmt to Surf w/ 350 sx
w/ 50/50 Poz & 2% CaCl₂

$$PBDU = \pm 5280'$$

$TID = 5320'$

All cement plugs
to be Class G
w/ 50/50 Poz : 6% gel

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—" for such proposals.)

1. OIL WELL ☒ GAS WELL ☐ OTHER ☐	7. UNIT AGREEMENT NAME <u>Media Entrada Unit</u>
2. NAME OF OPERATOR <u>Merrion Oil & Gas Corporation</u>	8. FARM OR LEASE NAME <u>Media Entrada Unit</u>
3. ADDRESS OF OPERATOR <u>P. O. Box 840, Farmington, New Mexico 874(9)</u>	9. WELL NO. <u>2</u>
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) <u>At surface</u> <u>1650' FSL & 330' FEL</u>	10. FIELD AND POOL OR WILDCAT <u>Media Entrada</u>
14. PERMIT NO.	11. SEC., T., R., M., OR B.L. AND SURVEY OR AREA <u>Section 15, T19N, R3W</u>
15. ELEVATIONS (Show whether DF, RT, GR, etc.) <u>6807' GR</u> <u>6621' KB</u>	12. COUNTY OR PARISH <u>Sandoval</u>
	13. STATE <u>New Mexico</u>

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐FRACTURE TREAT ☐SHOOT OR ACIDIZE ☐REPAIR WELL ☐(Other) ☐PULL OR ALTER CASING ☐MULTIPLE COMPLETE ☐ABANDON* ☒CHANGE PLANS ☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐FRACTURE TREATMENT ☐SHOOTING OR ACIDIZING ☐(Other) ☐REPAIRING WELL ☐ALTERING CASING ☐ABANDONMENT* ☐

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS: (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

The well is currently an uneconomic shut-in Entrada well. Attached is a plugging procedure for your approval. We plan to conduct the P&A in June of this year.

18. I hereby certify that the foregoing is true and correct

SIGNED

George F. Sharpe
George F. Sharpe

TITLE Reservoir Engineer

DATE

5-2-90

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See instructions on Reverse Side

MERRION OIL & GAS CORPORATION

MEDIA ENTRADA UNIT NO. 2

PLUG & ABANDON PROCEDURE

LOCATION: 1650' FSL & 330' FEL ELEVATION: 6621' KB
Section 15, T19N, R3W 6807' GL
Sandoval County, New Mexico
PREPARED BY: George F. Sharpe *AFS* DATE: 4/30/90

1. MIRU. ND WH. Nipple up BOPs.
2. RIH with workstring to PBTD at $\pm$ 5290'. Roll hole with 9.0 ppg mud.
3. Spot cement plug across Entrada from 5290' to 5117' with 25 sx cement. WOC. Tag cement top.
4. Pull up to 4484'. Spot cement plug across Morrison top from 4484' to 4311' with 25 sx.
5. Pull up to 4220'. Spot cement plug across Dakota top from 4220' to 4047' with 25 sx.
6. Pull up to 2810'. Spot cement plug across Gallup top from 2810' to 2637' with 25 sx.
7. Pull up to 400'. Spot plug across Mesaverde top and casing shoe from 400' to 158' with 35 sx.
8. Pull up to 50'. Spot plug to surface with 7 sx.
9. Bullhead 10 sx (60') into 7" - 10-3/4" annulus. Cut off casing and install P&A marker. Restore location.

* All cement to be Class "G" with ^{50/50} Poz; yield = 1.57 ft³/sack.
; 6% gel

GFS/eg
4/30/90

APPROVED: *[Signature]*

DATE: 5-9-90

MEDIA ENTRADA UNIT # 4.

(FLUID POWER PUMP #3)

MEDIA ENTRADA FIELD

(FLUID POWER PUMP COMPANY)

LOCATION 'I' 1650' FSL & 330' FEL SECTION 15 BLOCK

SURVEY T-19-N & R-3-W COUNTY SANDOVAL, NEW MEXICO

DATUM 6620.5' IDF 1 G.L. ELEV. 6807' TO 5320' PSTD ± 5226' (unit & full)

6620.5' DF

6807' GL

CASING RECORD

*CALCULATED AT
50% EFFICIENCY

LOGGING RECORD

SIZE	WT.	DEPTH	CMT.	TOC	HOLE SIZE	DATE	CO.	TYPE	INTERVAL
10 3/4"	32.75"	201.55'	140%		13 3/4"			FDC	
7"	27 1/2"	5320'	350%	CIRC	8 3/4"			IES	
						12-18-73	BLUE	TEMP LOG	5226'-400'
						12-18-73	"	BOND LOG	5226'-1700'

LOG TOPS

PERFORATIONS AND/OR OPEN HOLE * NOT OPEN NOW

ZONE	TOP	SUBSEA	DATE	ZONE	DEPTHS	DENS & SIZE
ENTRADA	1966'		3-?-72	ENTRADA	5218'-5240' (44 Holes)	2 SPF
GALLUP	2760' ✓					
DAKOTA	4170' ✓					
ENTRADA	5218' ✓					
Monia	4434' ✓					
Monia	350' ✓					

SQUEEZE & REPAIR

DATE	DEPTH	WORK DONE
12-18-73	2200'	Devised w/ 2 JS sized w/ 300sx Rea unit max 500 pressure 6500. Dried unit from 2150'-2325'
GOC		
OWC	5248'	

STIMULATION

B0+BW

DATE	ZONE	AMOUNT & TYPE	METHOD	BEFORE	AFTER
3-7-72	5218-5240	2000a 15% mud Acid			
8-2-73	" "	Repaired 4 3/4" CSA pump w/	100hc GSE Rea	40+1350	140+3065
9-1-74	5218-5240	500a 15% HCl			
9-2-74	" "	700# J-250 + 2000# J-279 +	Pumped downhole into zone		Completed since then
		140# J-274 (Polymers) + 500#	M-130 (X-linker)		

TD 5320' @ 5320'

Casing Capacity = .2273 #/ft

OPT ENTRADA: 43880-1320 B.H. (STIM) W/ (4-1-72) API GR 325 DATA AVAILABLE DST CORE ☐ PVT OTHER ☐

REMARKS: The solution mixed in Sept 74 to shut off water was pumped. Disposition into the production zone. Production was completed. Shut off of the well stabilized down. The well was shut off Dec 77 at which time the solution treatment was done. DATE: 1-12-86 EWL

FILE: MEU3C108
GFS 2-28-90

WELL DATA SUMMARY
MEDIA ENTRADA UNIT #3 AREA OF REVIEW

WELL:		HARVEY FED 1	HUTCHISON FED 1	HUTCHISON FED 2	MEU 1	MEU 2	MEU 3	MEU 4	MEU 5	MEU 6	MEU 7	MEU 8
LOCATION:		SNW 14 19N 3W	NWSW 14 19N 3W	NESE 15 19N 3W	SENE 15 19N 3W	NESE 15 19N 3W	NWSW 14 19N 3W	NESW 14 19N 3W	SWSE 15 19N 3W	SESE 15 19N 3W	SWSW 15 19N 3W	SESW 15 19N 3W
CURRENT STATUS:		P&A	P&A	P&A	SHUT IN ENTRADA INJECTOR	SHUT IN ENTRADA PRODUCER	SHUT IN ENTRADA PRODUCER	SHUT IN ENTRADA INJECTOR	ACTIVE ENTRADA INJECTOR	ACTIVE ENTRADA PRODUCER	SHUT IN ENTRADA PRODUCER	ACTIVE ENTRADA INJECTOR
SPUD DATE:		2-7-54	7-3-53	11-18-53	11-29-71	2-18-72	10-10-71	6-30-69	3-10-72	4-14-69	3-25-69	5-18-69
KB ELEV:		6813	6788	6788	6795	6621	6842	6866	6846	6820	6850	6886
TD:		5292	9684	5202	5300	5320	5351	5346	5380	5283	5310	5344
P8TD:		SURF	SURF	SURF	5260	5280	5300	5306	5300	5258	5299	5311
SURFACE CASING:		10-3/4"	10-3/4"	9-5/8"	10-3/4"	10-3/4"	10-3/4"	8-5/8"	10-3/4"	8-5/8"	8-5/8"	8-5/8"
SIZE		478'	452'	470'	210'	208'	217'	210'	236'	208'	200'	213'
DEPTH		500	550	475	140	140	140	140	140	175	150	175
SX CMT		SURF	SURF	SURF	SURF	SURF	SURF	SURF	SURF	SURF	SURF	SURF
TOC		NA	5478'	5200'	5300'	5320'	5340'	5346'	5300'	5283'	5310'	5344'
PRODUCTION CASING:		7"	7"	7"	7"	7"	7"	5-1/2"	7"	4-1/2"	4-1/2"	4-1/2"
SIZE		5478'	5478'	5200'	5300'	5320'	5340'	5346'	5300'	5283'	5310'	5344'
DEPTH		100	100	500	310	350	300	548	300	300	300	300
SX CMT		4330'	4330'	3580'	3500'	SURF	3340'	2214'	2800'	3683'	1600'	3744'
TOC		CUT @ 2490'	CUT @ 2490'	CUT @ 800'								
FORMATION TOPS:		LEWIS	SURF	SURF	SURF	SURF	SURF	SURF	SURF	SURF	SURF	SURF
MESAVERT		300	290	340	334	350	380	402	385	350	390	404
GALLUP		3215	3165	3162	2752	2760	2790	2824	2852	2814	2844	2798
DAKOTA		4190	4209	4174	4284	4170	4202	4250	4224	4186	4216	4272
MORRISON		4440	4440	4432	4422	4434	4456	4451	4444	4436	4466	4515
ENTRADA		5231	5214	5199	5192	5218	5218	5282	5282	5218	5248	5290
CMT THRU ENTRADA?		YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
COMMENTS:					PLAN TO P&A	PLAN TO P&A	PLAN TO CONVERT TO INJECTION	PLAN TO P&A			PLAN TO RECOMPLETE IN MENEFFEE	

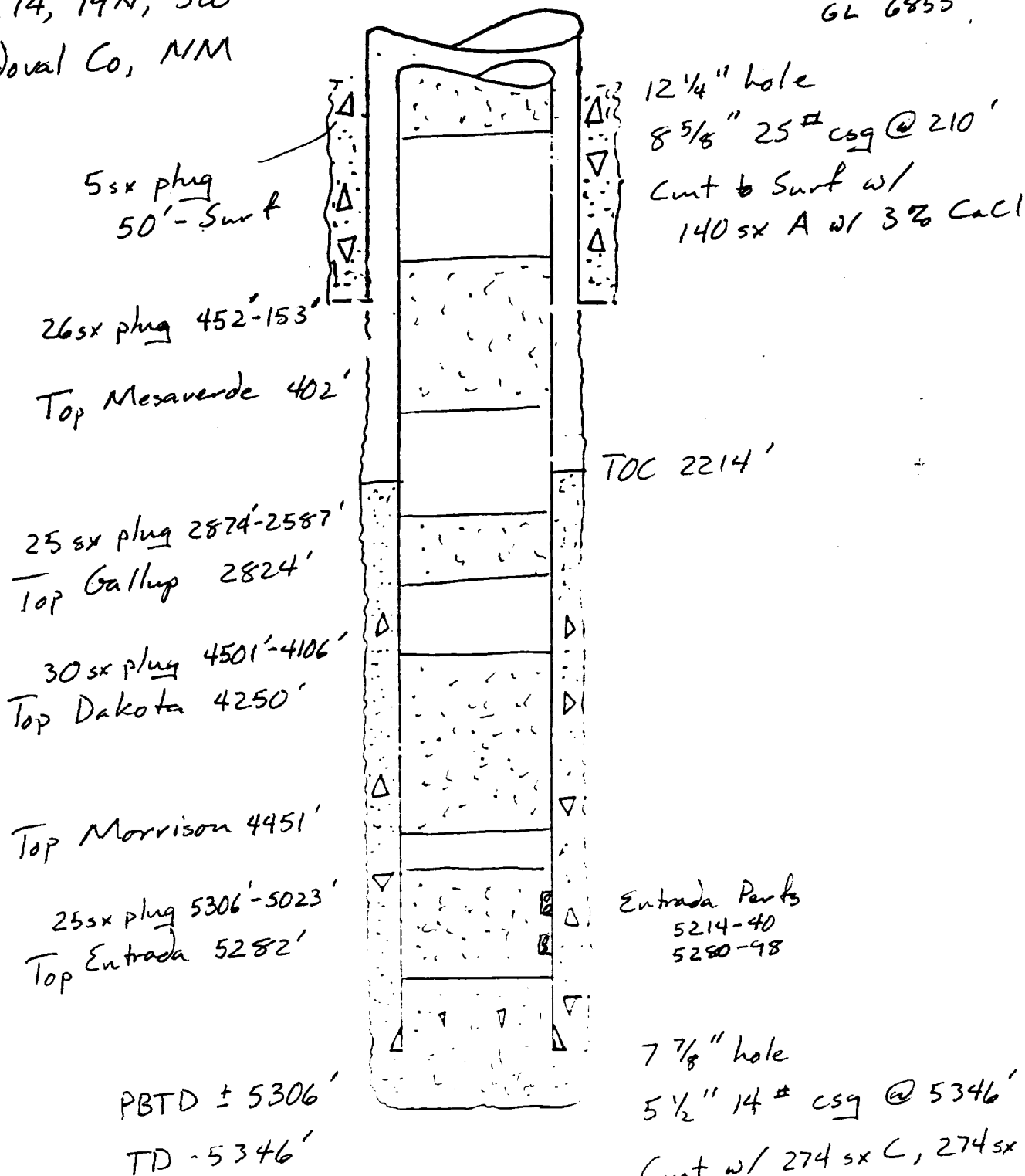
Media Entrada Unit #4

Proposed PIA

GFS
5-23-90

1650' FWL 1980' FSL
Sec 14, 19N, 3W
Sandoval Co, NM

KB 6866'
GL 6853'



All cement plugs to be
Class G
w/ 50/50 Poz 5 6% gel

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—" for such proposals.)

1. OIL WELL ☐ GAS WELL ☐ OTHER ☒ Salt Water Disposal	7. UNIT AGREEMENT NAME <i>Media Entrada Unit</i>
2. NAME OF OPERATOR Merrion Oil & Gas Corporation	8. FARM OR LEASE NAME Media Entrada Unit
3. ADDRESS OF OPERATOR P. O. Box 840, Farmington, New Mexico 87499	9. WELL NO. 4
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 1980' FSL & 1650' FWL	10. FIELD AND POOL OR WILDCAT Media Entrada
14. PERMIT NO.	11. SEC., T., R., M., OR BLM. AND SURVEY OR AREA Sec. 14, T19N, R3W
15. ELEVATIONS (Show whether OF, HT, GR, etc.) 6853' GR 6866' KB	12. COUNTY OR PARISH, 13. STATE Sandoval New Mexico

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐	PULL OR ALTER CASING ☐
FRACTURE TREAT ☐	MULTIPLE COMPLETE ☐
SHOOT OR ACIDIZE ☐	ABANDON* ☒
REPAIR WELL ☐	CHANGE PLANT ☐
(Other) ☐	

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐	REPAIRING WELL ☐
FRACTURE TREATMENT ☐	ALTERING CASING ☐
SHOOTING OR ACIDIZING ☐	ABANDONMENT* ☐
(Other) ☐	

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

The subject well is a shut-in Entrada injector that is no longer needed for our current operations. Attached is a plug and abandonment procedure for your approval. We plan to complete the P&A in June of this year.

18. I hereby certify that the foregoing is true and correct

SIGNED

George F. Sharpe
George F. Sharpe

TITLE Reservoir Engineer

DATE

5-2-70

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See instructions on Reverse Side

MERRION OIL & GAS CORPORATION

MEDIA ENTRADA UNIT NO. 4

PLUG & ABANDON PROCEDURE

LOCATION: 1650' FWL & 1980' FSL ELEVATION: 6866' KB
Section 14, T19N, R3W 6853' GL
Sandoval County, New Mexico

PREPARED BY: George F. Sharpe *gfs* DATE: 5/07/90

1. MIRU. ND WH. Nipple up BOPs. Release Baker 7", R-3 packer. POOH and stand back $\pm$ 4500' of 2-7/8" tubing.
 2. RIH with tubing open ended to PBTD at $\pm$ 5310'. Roll hole with 9.0 ppg mud.
 3. Spot cement plug across Entrada from 5310' to 5023' with 25 sx cement. WOC. Tag cement top.
 4. Pull up to 4501'. Spot cement plug across Morrison and Dakota tops from 4501' to 4106' with 30 sx.
 5. Pull up to 2874'. Spot cement plug across Gallup top from 2874' to 2587' with 25 sx.
 6. Pull up to 452'. Spot cement plug across Mesaverde top and casing shoe from 452' to 153' with 26 sx.
 7. Pull up to 50'. Spot plug to surface with 5 sx.
 8. Bullhead 10 sx (84') into 5-1/2" - 8-5/8" annulus. Cut off casing and install P&A marker. Restore location.
- * All cement to be Class "G" with ^{50/50} ~~50%~~ Poz; yield = 1.57 ft³/sack.
6% gel

GFS/eg

APPROVED: *George F. Sharpe*

DATE: 5-9-90.

(DON C. WILEY)

LOCATION 'K' 1050' FWL & 1980' FSL

SECTION 14

BLOCK

SURVEY T-19-N & R-3-W

COUNTY SANDOVAL, NEW MEXICO

DATUM 6846' [KB] G.L. ELEV. 6853' TO 5346' POSTD

CASING RECORD						LOGGING RECORD			
*CALCULATED AT 75% EFFICIENCY									
SIZE	WT.	DEPTH	CMT.	TOC	HOLE SIZE	DATE	CO.	TYPE	INTERVAL
B50"	25#	210'	140SX	CIRC.	12 1/4"			IES	
5 1/2"	14#	5346'	548SX	± 22 1/4"	.776"			FEC	
LOG TOPS			PERFORATIONS AND/OR OPEN HOLE * NOT OPEN NOW						
ZONE	TOP	SUBSEA	DATE	ZONE	DEPTHS	DENS & SIZE			
MEAUROFF	402' ✓		7-?-69	ENTRADA	5230'-98' (54 Holes)	3 SPF			
PT DECKOUT	1994'		7-?-69	"	5214'-40' (78 Holes)	3 SPF			
MANKOS	2140'								
GALLUP	2824' ✓								
CONHRN	3972'								
DAKOTA	4250' ✓								
MORRISON	4451' ✓								
			SQUEEZE & REPAIR						
			DATE	DEPTH	WORK DONE				
TODOLTO	5230		4-12-75	5150'	Set CIBP @ 5150' & capped w/ 40' amt.				
GOC									
OWC			5295'						
STIMULATION									
DATE	ZONE	AMOUNT & TYPE		METHOD	BEFORE	AFTER			
7-?-69	5214-40'	3000g 15% MCA							
Casing =		.137 ft ³ /ft							
TD 5346'		(DE 5346')							

OPT Temporary/Abandoned-not Commercial Production DATA AVAILABLE DST ☐ CORE ☒ 1054 PVT ☐ OTHER ☐

REMARKS: This well was converted to SWR. Sometime early to May 77. The well was TAD immediately following initial conversion in early 69 & remained TAD until conversion to SWD for T-P-T-110 maintenance. DATE: 1-17-82

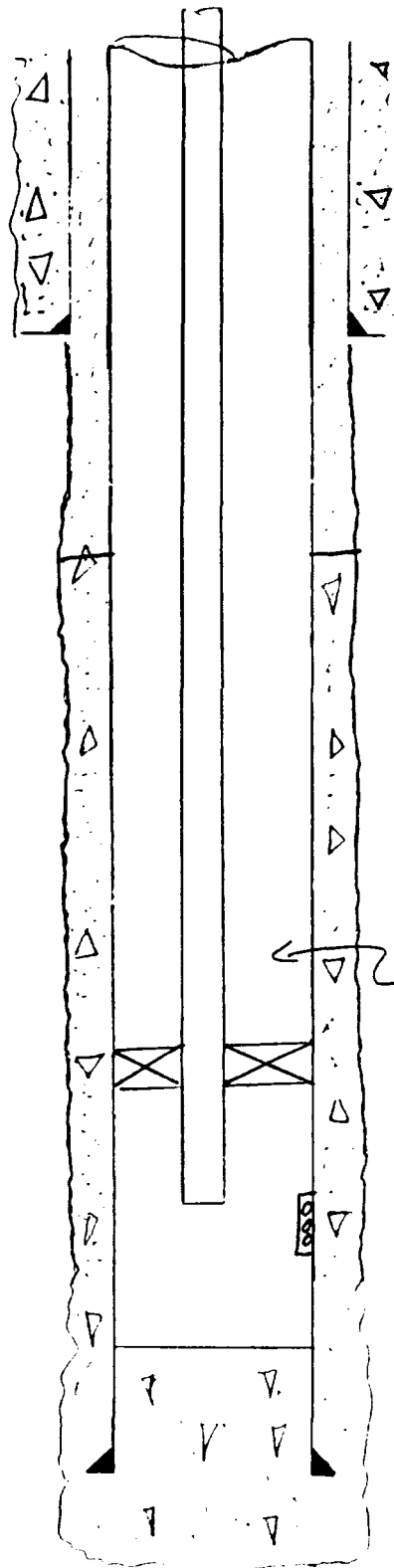
DATE: 1-17-04 p. 11

Media Entrada Unit #5 Wellbore Schematic

GFS
5-23-90

990' FSL 1650' FWL
Sec 15 19N 3W
Sandoval Co, NM

GL 6834'
KB 6846'



13 3/4" hole
10 3/4" 32.8# csq @ 236'
Cmt to Surf w/ 140sx A

8 3/4" hole
7" 23# csq @ 5300'
Cmt w/ 300sx 50/150 poz
& 3% CaCl
TOC @ 2800' (Calc)

2 7/8" P.L. +bg

Baker Lockset PKR @ 5196'

Entreda Perts
5284-90

PBTD = ± 5300'

TD = 5380'

Formation Tops

Lewis - Surf
Mesaverde - 385'
Gallup - 2852'
Dakota - 4224'
Morrison - 4444'
Entreda - 5202'

Media Entrada Unit #6 Wellbore Schematic

6FS
5-23-90

940' FSL 330' FEL
Sec 15 19N 3W
Sandoval Co, NM

GL - 6808'
KB - 6820'

Sg ± w/ 150sx Thixoment 312'-428'
: 50sx B
Re Sg ± w/ 150sx Thix : 150sx B
Sg ± w/ 200sx A 2065'
2342-2705'
Sg ± w/ 150sx Thixoment
and 150sx B

12 1/4" hole
8 5/8" 24# csq @ 208'
Cmt to Surf w/
175sx C w/ 30% CaCl₂

7 7/8" hole
4 1/2" 9.5# csq @ 5283'
Cmt w/ 150sx C : 150sx
Diamix A w/ 20% CaCl

TOL 3683'

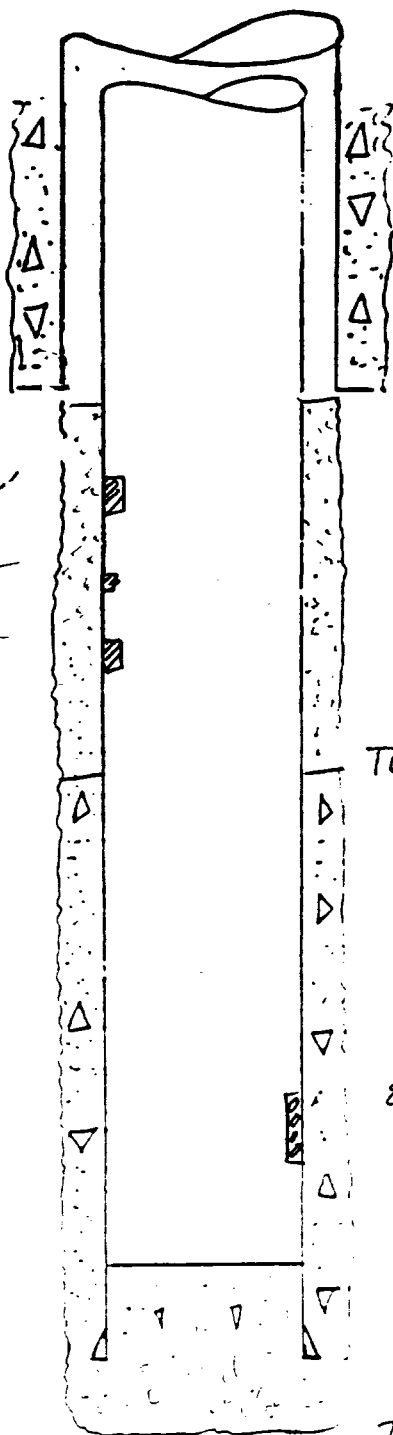
Formation Tops

Lewis - Surf
Mesaverde - 350'
Gallup - 2814'
Dakota - 4186'
Morrison - 4436'
Entrada - 5218'

Entrada Perfs
5196'-5238'

PBTD ± 5250'

TD = 5283'



Media Entrada Unit #7 Proposed Menefee Completion

GFS
5-23-90

990' FSL 660' FEL
Sec 14, 19N1, 3W
Sandoval, Co, NM

6850' KB
6837' GL

PROPOSED WORK:

Part: test following zones:

Menefee 1620-35
1815-35
1890-1900
1925-50

P+ Lookout 1975'-85'

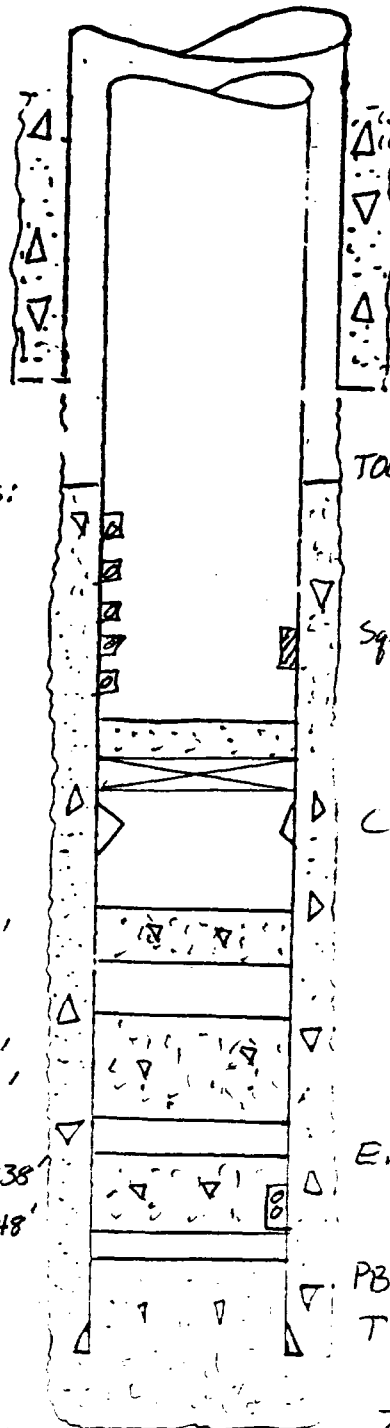
CICK @ 2440
w/ 5 sx cmt on top

25 sx Plug 3000-2670
Gallup Top - 2844'

50 sx Plug 4623-3963
Dakota Top - 4216'
Morrison Top - 4466'

25 sx plug 5268-4938'
Entrada Top @ 5248'

All plugs to be neat class B



12 1/4" hole
8 5/8" csq @ 200'
Cmt to surf w/ 150 sx A

TOC = 1600' (log)

Sqz csq leak 2211-42
w/ 350 sx

Collapsed csq @ 2440'

Entrada Perfs
5238-48'
5252'-68'

PBTD 5299'
TD 5310'

7 7/8" hole
4 1/2" 10.5" csq @ 5310'
Cmt w/ 300 sx C w/
50/50 P+7

4 1/2" capacity: .0895 ft³/ft

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL ☐ DEEPEN ☐ PLUG BACK ☒			5. LEASE DESIGNATION AND SERIAL NO. NM-058122
b. TYPE OF WELL OIL WELL ☒ GAS WELL ☐ OTHER ☐ SINGLE ZONE ☐ MULTIPLE ZONE ☐			6. IF INDIAN, ALLOTTEE OR TRIBE NAME
2. NAME OF OPERATOR Merrion Oil & Gas Corporation			7. UNIT AGREEMENT NAME Media Entrada Unit
3. ADDRESS OF OPERATOR P. O. box 840, Farmington, New Mexico 87499			8. FARM OR LEASE NAME Media Entrada Unit
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface 990' FSL and 660' FWL At proposed prod. zone			9. WELL NO. 7
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 23 miles south of Cuba, New Mexico			10. FIELD AND POOL, OR WILDCAT Media Entrada
10. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any)	16. NO. OF ACRES IN LEASE 80	17. NO. OF ACRES ASSIGNED TO THIS WELL 40	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 14, T19N, R3W
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. None	19. PROPOSED DEPTH 5,200'	20. ROTARY OR CABLE TOOLS Rotary	12. COUNTY OR PARISH Sandoval
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 6,837' GR		22. APPROX. DATE WORK WILL START* 5/11/90	

23. PROPOSED CASING AND CEMENTING PROGRAM				
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT

We plan to plug back and recomplete the subject well as a Menefee producer. If the Menefee is not economically productive, we plan to plug and abandon the well. Attached is a procedure for your approval.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED George F. Sharpe TITLE Reservoir Engineer DATE 5/4/90
George F. Sharpe
This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____
AREA MANAGER
APPROVED BY [Signature] TITLE RIO PUERCO RESOURCE AREA DATE MAY 09 1990
CONDITIONS OF APPROVAL, IF ANY:

OPERATOR
*See Instructions On Reverse Side

OIL CONSERVATION DIVISION

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

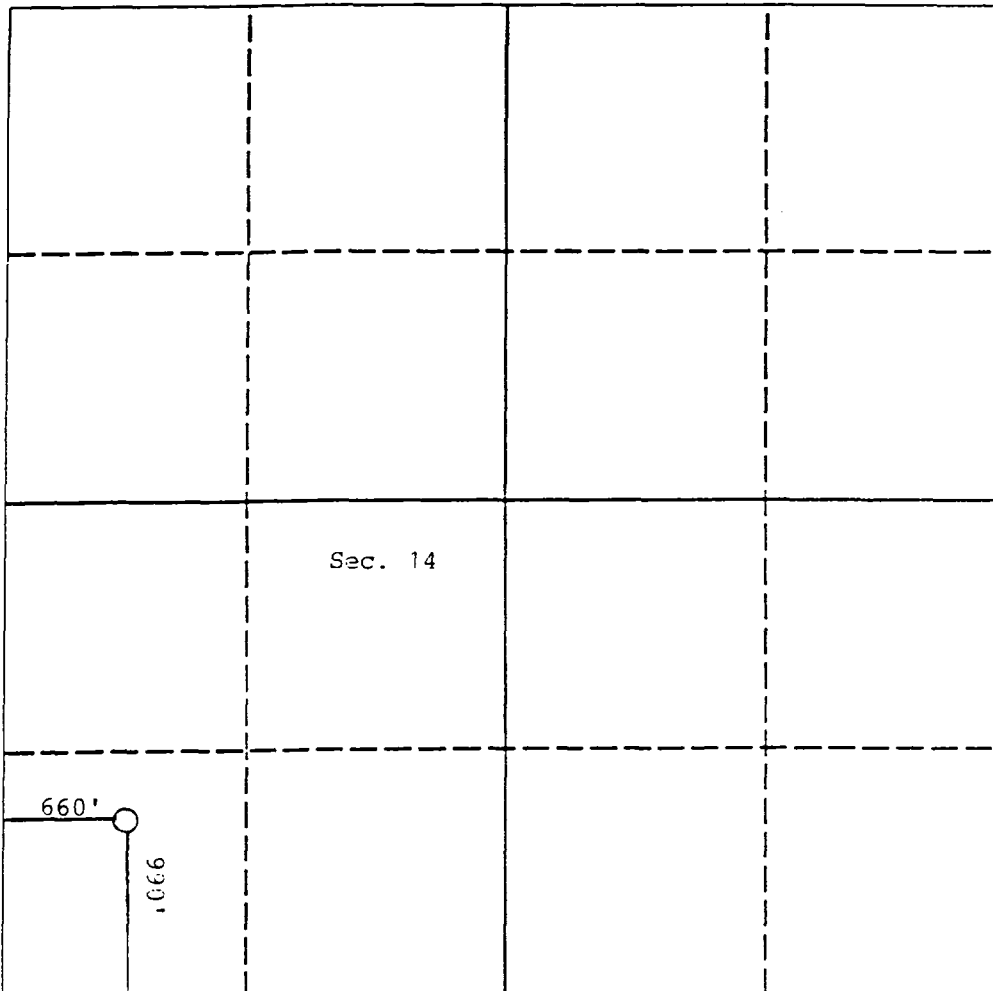
DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator Merrion Oil & Gas Corporaiton			Lease Media Entrada Unit		Well No. 7
Unit Letter M	Section 14	Township 19 N	Range 3W	County NMPM	Sandoval
Actual Footage Location of Well: 990 feet from the South line and 660 feet from the West line					
Ground level Elev. 6,837'	Producing Formation Menefee		Pool Undesignated Mesaverde		Dedicated Acreage: 40 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc.?
☐ Yes ☐ No If answer is "yes" type of consolidation _____
If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary). _____
No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.



OPERATOR CERTIFICATION

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

Signature: *George F. Sharpe*
Printed Name
George F. Sharpe
Position
Reservoir Engineer
Company
5/4/90
Date

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed
Signature & Seal of Professional Surveyor
Certificate No.

MERRION OIL & GAS CORPORATION

MEDIA ENTRADA UNIT NO. 7

MENEFEE RECOMPLETION PROCEDURE

LOCATION: 990' FSL & 660' FEL ELEVATION: 6837' GL
Section 14, T19N, R3W 6850' KB
Sandoval County, New Mexico

PREPARED BY: George F. Sharpe *GIS* DATE: 5/01/90

- 1) MIRU. NU BOPs.
- 2) Set 4-1/2" CICR at 2400' above collapsed casing at 2440'. RIH with 2-3/8" tubing. Sting into CICR and establish pump in rate. Mix and pump following:
 - a) 25 sx Class "B" cement (5.25 bbls, 330' in 4-1/2" casing, will place across Entrada 5268'-4938').
 - b) 5 bbl 9.0 ppg mud (315'). (~~4938'~~-4623')
 - c) 50 sx Class "B" cement (10.5 bbls, 660' across Morrison and Dakota tops from 4623' to 3963').
 - d) 15.3 bbl 9.0 ppg mud (963'). (~~3963'~~-3000')
 - e) 25 sx Class "B" cement (5.25 bbls, 330' across Gallup from 3000' to 2670').
 - f) 4.3 bbl 9.0 ppg mud (270' to CICR at 2400'). (~~2670'~~-2400')
 - g) Displace with 9.3 bbl 9.0 ppg mud (2-3/8" tubing volume).
- 3) Pull out of CICR. Dump 5 sx Class "B" on top. Pressure test casing to 2000 psi. Circulate hole clean with Entrada produced water. POOH.
- 4) Rig up wireline. Run CBL from 2300' to 1300'. If TOC below 1600', perf and squeeze as necessary.
- 5) Swab well down to 1500'. RIH with casing guns and perf Point Lookout 1975'-85' with 2 SPF. POOH. Swab test perfs. If water, squeeze with 25 sx. If oil, set RBP at 1960'.
- 6) Swab well down to 1400'. Rig up wireline. RIH with casing guns and perf Menefee 1815'-35', 1890'-1900', 1925'-50' with 2 SPF. POOH. Swab test perfs 1815'-1950'. If water, squeeze with 40 sx. If oil, move RBP to 1770'.

- 7) Swab well down to 1200'. Rig up wireline. Perf 1620'-35' and 1735'-45' with 2 SPF. Swab test perfs. If water, squeeze with 40 sx.
- 8) Remove RBP to open all perfs which produced oil. POOH. Frac well with procedure to be specified at later date. Flow back to test.
- 9) RIH with mud anchor, perforated sub, seating nipple and $\pm$ 2000' of 2-3/8" tubing. ND BOPs, NU Wellhead. RIH with 1 1/4" RHAC pump on 3/4" rods. RD MOL. (Pump unit to be specified at later date.)

IF NO ZONES PRODUCED OIL, P&A AS FOLLOWS:

- 8a) Roll hole with 9.0 ppg mud. Spot cement plug 50' below to 50' above open Menefee perfs (25 sx minimum).
- 8b) Pull to 440'. Spot 25 sx Class "B" plug from 440' to 110' across Mesaverde top and casing shoe.
- 8c) Pull to 50'. Spot 4 sx Class "B" plug to surface.
- 8d) If possible, bullhead 10 sx (50') down 4-1/2" - 8-5/8" annulus. RD MOL.
- 8e) Cut off casing. Install P&A marker. Restore location.

GFS/eg

APPROVED: _____

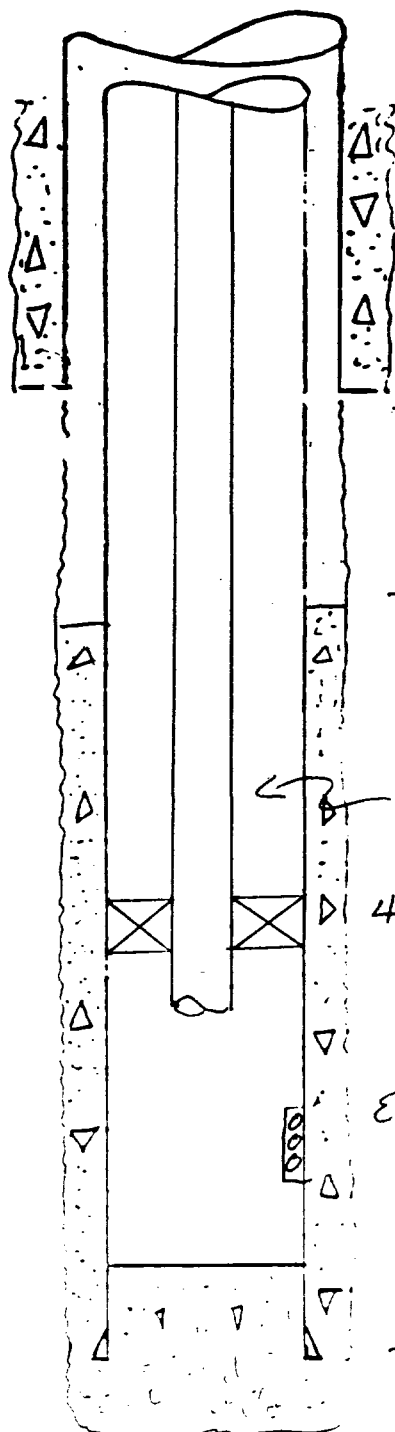
DATE: _____

Media Entrada Unit #8 Wellbore Schematic

GF5
5-23-70

990' FSL 1650' FWL
Sec 14, 19N, 3W
Sandoval Co, NM

6873' GL
6886' KB



12 1/4" hole
8 5/8" 24# csg @ 213'
Cmt to Surf w/ 175sx
A w/ 3% CaCl

7 7/8" hole
4 1/2" 9.5# csg @ 5344'
Cmt w/ 150sx C w/ 2% CaCl
+ 150sx Diamix

TOC 3744'

2 3/8" tbg

4 1/2" Baker tension pkr
@ 5174'

Entrada Pkts
5280' - 5305'

PBTD 5311'

TD 5344'

Formation Tops

Lewis - Surf
Mesaverde - 404'
Gallup - 2798'
Dakota - 4272'
Morrison - 4514'
Entrada - 5290'

Hutchison Federal #2 Well bore Schematic

GFS
5-22-90

Location

1904' FSL 660' FEL
Sec 15, 19N, 3W
Sandoval Co, NM

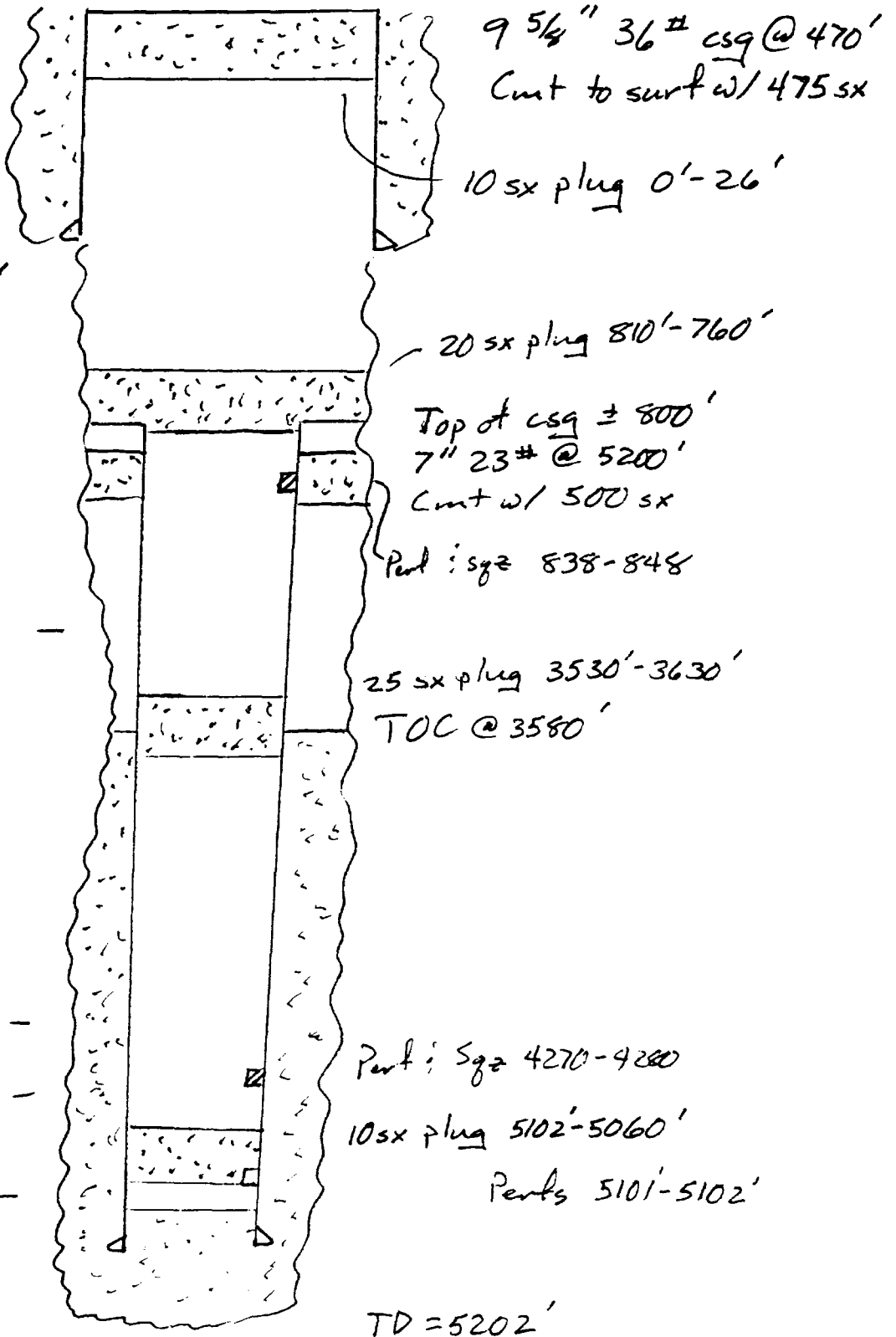
Mesaverde - 340'

Tocito 3162' -

Dakota 4174' -

Morrison 4432' -

Entrada 5199' -



Hutchison Federal #1 Wellbore Schematic

GFS
5-22-90

Location

1980' F L 660' FWL
Sec 14, 19N, 3W
Sandoval Co, NM

Mesaverde 290'

7" 23# csq @ 5478'
Cmt w/ 100sx. TOC = 4330'
Cut off @ 2490'

Tocib 3165'

Dakota 4209'

Morrison 4440'

Entrada - 5214'

10 3/4" 32.8# csq @ 452'
Cmt to surf w/ 550sx

10sx plug 12'-0'

25sx plug 452'-401'

30sx plug 2490'-2428'

30sx plug 3310'-3163'

3210-11 Sg w/ 150sx

3229-44' Gallup Perfs

3351-55 Sg w/ 150sx

CIBP 3395'

TOC 4330'

Entrada Perfs 5210'-17', 5240. Sg w/ 1120sx

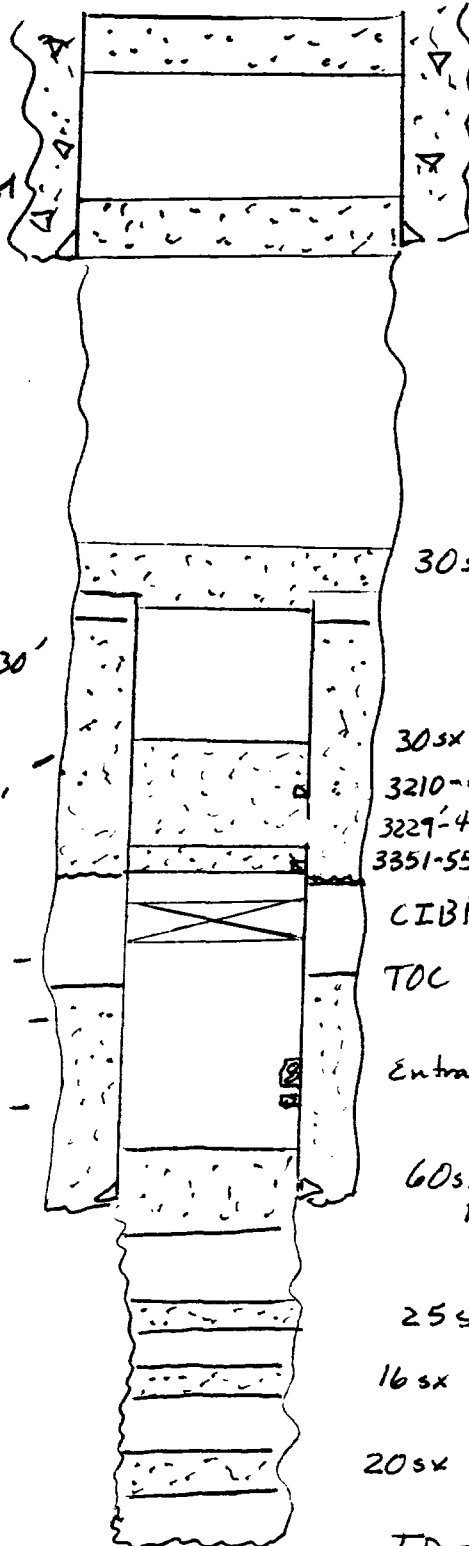
60sx 5550'-5300'
DOC to 5400'

25sx 8500'-8400'

16sx 8780'-8710'

20sx 9160'-9075'

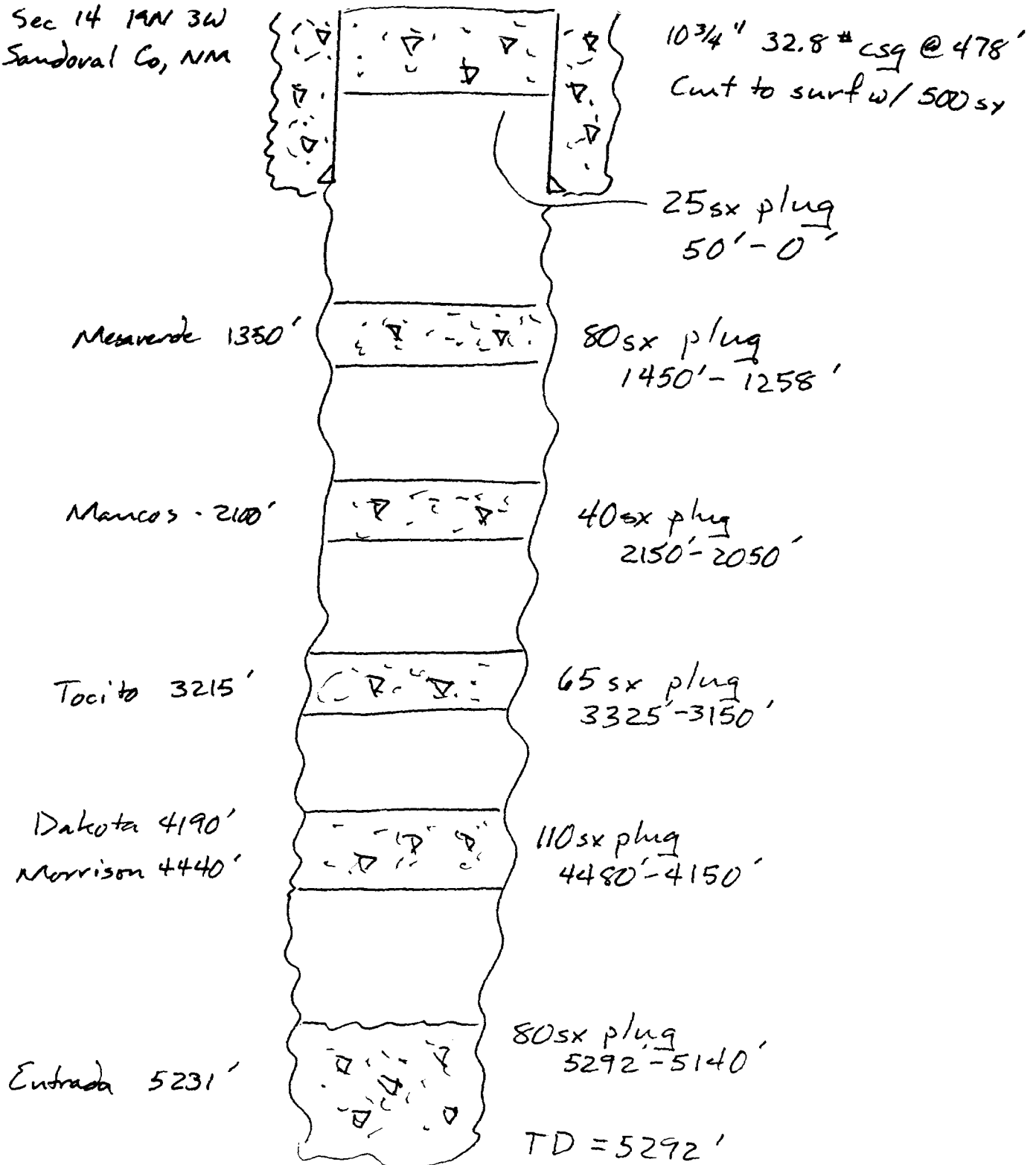
TD = 9684'



Harvey Federal #1
Wellbore Schematic

GFS
5-22-90

Location:
1980' FNL 660' FWL
Sec 14 14N 3W
Sandoval Co, NM



THE OBSERVER

New Mexico's Fastest Growing Newspaper

Panorama Plaza Suite D & E
1594 Sara Rd, Rio Rancho, NM 87124
P.O. Box 15878, Rio Rancho, NM 87174
(505)892-8080 FAX (505)892-5719

SD_____

AFFIDAVIT OF PUBLICATION

STATE OF NEW MEXICO)
COUNTY OF SANDOVAL)

MICHAEL J. RYAN, being duly sworn, upon oath stated:

That affiant is the Publisher of THE OBSERVER, a weekly newspaper published in the County of Sandoval and having a general circulation in the City of Rio Rancho and the County of Sandoval and duly qualified for the publication of legal advertisements within the meaning of the Publication of Notice Act, being Sections 14-11-1 seq., NMSA 1978, as amended, that the publication, a copy of which is hereto attached, was published said newspaper in the regular edition and entire issue of every number of the paper during the period and time of publication, and that said Notice was published in the Newspaper proper, and not in a supplement for 1 consecutive weeks, the first publication being on the 30th day of May 1990 and the subsequent publication on 31st 1990 and that payment therefore has been made or assessed as court costs in the case and cause number shown in the attached publication.

Michael J. Ryan
Affiant

Subscribed and sworn to before me this 30th day of May, 1990.

Notary Seal expires 3-9-92

Sharon R. Kelly
Notary Public

Seal

SANDOVAL COUNTY WATER
1980' FSL 330' FWT
Sec 14, T19N, R9W
Waterford Expansion in
Medic Entrance Pool
Entrada Formation at 5210
depth
Maximum Injection Rate
3000 BPD
Maximum Injection Pressure
1000 psi
Objections or requests for
hearing must be filed within 15
days of:
NM Oil Conservation
Commission
P.O. Box 2000
Santa Fe, New Mexico
87201
For more information, contact
George F. Stagle,
Medic Oil & Gas Company
P.O. Box 600
Farmington, NM 87401
(505) 874-4001

MEDIA ENTRADA UNIT #3

Notification List

I. Surface Land Owner:

<u>Name</u>	<u>Notified</u>	<u>Comments</u>
BLM	Yes	NTL-2B Submitted

II. Lease Operators Within 1/2 Mile Area of Review:

<u>Lease #</u>	<u>Operator</u>	<u>Notified</u>	<u>Comments</u>
1. NM-043286	MOG	N/A	
2. NM-043286-A	MOG	N/A	
3. NM-045884-A	MOG	N/A	
4. NM-058122	MOG	N/A	
5. NM-12012	MOG	N/A	
6. NM-70104	Lasrich	Yes	Sent Copy of C-108
7. NM-70815	Cherry Dental	Yes	Sent Copy of C-108
8. NM-8393-A	MOG	N/A	

MERRION OIL & GAS CORPORATION

610 REILLY AVE. • P. O. Box 840

FARMINGTON, NEW MEXICO 87499

May 30, 1990

Lasrich Company
2597 E. Bridge
Sandy, Utah 84092

Cherry Dental Service, Ltd.
4336 Covington Hiway
Suite 203
Decatur, Georgia 30035

Gentlemen:

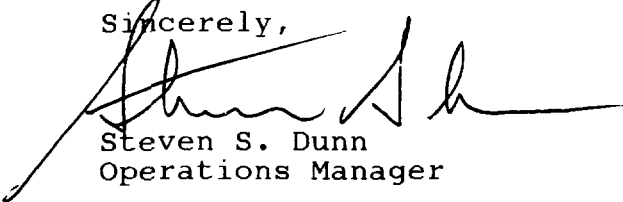
We are planning to convert the Media Entrada Unit #3 to injection to expand the waterflood in the Media Entrada Unit. Attached is a copy of the State permit application.

The well is located adjacent to your lease or leases in Section 14, T19N, R3W, Sandoval County, New Mexico. Thus, we are required by the State to notify you of our plans. Objections or requests for hearing should be filed within 30 days to:

NM Oil Conservation Commission
P. O. Box 2088
Santa Fe, New Mexico 87501

For more information, contact George Sharpe at (505) 327-9801.

Sincerely,



Steven S. Dunn
Operations Manager

GFS/l1s

CC: Unit File
Pat Hegarty
Mike Stogner, NMOCD