ENGINEER

TYPE SWD

jim.blount@dvn.com e-mail Address

PLR0408327863

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -1220 South St. Francis Drive, Santa Fe, NM 87505



STRATIVE API	PLICATION CHI	ECKLIST	
			REGULATION
tion] [NSP-Non-Standar ningling] [CTB-Lease gling] [OLS - Off-Lease rflood Expansion] [PN Salt Water Disposal] [d Proration Unit [SD-Si Commingling] [PLC-Po Storage] [OLM-Off-L IX-Pressure Maintenanc IPI-Injection Pressure In Ication] [PPR-Positive	multaneous Dedicati pol/Lease Commingli ease Measurement] le Expansion] ncrease]	ing] se]
- Spacing Unit - Simultar	Apply for [A] heous Dedication	RECEI MAR 2 2 20	VED
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et Operators, Leaseholde	rs or Surface Owner		
ication is One Which Re	quires Published Legal N	Notice	
fication and/or Concurre reau of Land Management-Commiss	nt Approval by BLM or Signer of Public Lands, State Land Offic	SLO	
all of the above, Proof of	Notification or Publicati	on is Attached, and/o	or,
vers are Attached			
	ORMATION REQUIR	ED TO PROCESS	ГНЕ ТҮРЕ
e to the best of my know	ledge. I also understand	thatno action will be	
	_	or supervisory capacity.	
Signature Blown	Operations Title	Engineering Advisor	3/18/04 Date
	CR ALL ADMINISTRATIVE APPRICH REQUIRE PROCESSING A tion] [NSP-Non-Standard Iningling] [CTB-Lease Iningling] [OLS - Off-Lease Iningling] [OLS -	tion] [NSP-Non-Standard Proration Unid [SD-Siningling] [CTB-Lease Commingling] [PLC-Piningling] [CTB-Lease Commingling] [PLC-Piningling] [OLS - Off-Lease Storage] [OLM-Off-Lingling] [OLS - Off-Lease Storage] [OLM-Off-Lingling] [PMX-Pressure Maintenance Salt Water Disposal] [IPI-Injection Pressure Inced Oil Recovery Certification] [PPR-Positive ON - Check Those Which Apply for [A] - Spacing Unit - Simultaneous Dedication NSP SD SD STORAGE - Measurement Company of the	gling [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement] riflood Expansion] [PMX-Pressure Maintenance Expansion] Salt Water Disposal] [IPI-Injection Pressure Increase] need Oil Recovery Certification] [PPR-Positive Production Response ON - Check Those Which Apply for [A] - Spacing Unit - Simultaneous Dedication NSP SD for [B] or [C] ling - Storage - Measurement - Disposal - Pressure Increase - Enhanced Oil Recovery - Disposal - Pressure Increase - Enhanced Oil Recovery - PMX SWD IPI EOR PPR recify UIRED TO: - Check Those Which Apply, or Does Not Apply king, Royalty or Overriding Royalty Interest Owners ret Operators, Leaseholders or Surface Owner dication is One Which Requires Published Legal Notice fication and/or Concurrent Approval by BLM or SLO resu of Land Management - Commissioner of Public Lands, State Land Office all of the above, Proof of Notification or Publication is Attached, and/office all of the above, Proof of Notification or Publication is Attached, and/office all of the above, Proof of Notification or Publication is Attached, and/office all of the above, Proof of Notification or Publication is Attached, and/office all of the above, Proof of Notification or Publication is Attached, and/office all of the above, Proof of Notification or Publication is Attached, and/office all of the above, Proof of Notification or Publication is Attached, and/office all of the above, Proof of Notification or Publication is Attached, and/office all of the above, Proof of Notification or Publication is Attached, and/office all of the above, Proof of Notification or Publication is Attached, and/office all of the above, Proof of Notification or Publication is Attached, and/office all of the above, Proof of Notification or Publication is Attached, and/office all of the above, Proof of Notification or Publication is Attached, and/office all of the above, Proof of Notification or Publication is Attached, and/office all of the above, Proof of Notification of Publication is Attached, and/office all of the above, Pr

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, New Mexico 87505

FORM C-108 Revised 4-1-98

APPLICATION FOR AUTHORIZATION TO INJECT

I.	PURPOSE: Secondary Recovery Pressure Maintenance X Disposal Storage Application qualifies for administrative approval? X Yes No
II.	OPERATOR: Devon Energy Production Company, LP
	ADDRESS: 20 North Broadway, Ste 1500, Oklahoma City, OK 73102
	CONTACT PARTY: James Blount PHONE: (405)228-4301
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 onehalf 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:
	 Proposed average and maximum daily rate and volume of fluids to be injected; Whether the system is open or closed; Proposed average and maximum injection pressure; Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation ifother than reinjected produced water; and, 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 orinferred 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 twoor 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: James Blount TITLE: Operations Engineering Advisor
	SIGNATURE: DATE: 3/18/04
*	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:

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate District Office

III. WELL DATA

- A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:
 - (1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.
 - (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
 - (3) A description of the tubing to be used including its size, lining material, and setting depth.
 - (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

- B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.
 - (1) The name of the injection formation and, if applicable, the field or pool name.
 - (2) The injection interval and whether it is perforated or open-hole.
 - (3) State if the well was drilled for injection or, if not, the original purpose of the well.
 - (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
 - (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within onehalf mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and,
- (4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

OPERATOR: Devon Energy Production Company, LP.,

WELL NAME & NUMBER: Campana Federal #1

RANGE WELL CONSTRUCTION DATA TOWNSHIP SECTION UNIT LETTER 1980' FNL & 660' FWL FOOTAGE LOCATION WELL LOCATION:

WELLBORE SCHEMATIC

Casing Size: 13 3/8" Surface Casing

or Cemented with: 500 sx.

Hole Size: 17 1/2"

 $\mathfrak{f}^{\mathfrak{z}}$

Top of Cement: surface

Method Determined: _Top Off

Intermediate Casing

Hole Size: 12 1/4"

Casing Size: 10 3/2"

or Cemented with: 1200 sx. Method Determined: circulated Top of Cement: surface

Production Casing

9 1/2" Hole Size:

Liner Size: 75/8"

Cemented with: 1500 sx.

or

 \mathbb{H}^3

Method Determined: _Calculated_ Top of Cement: 4100'

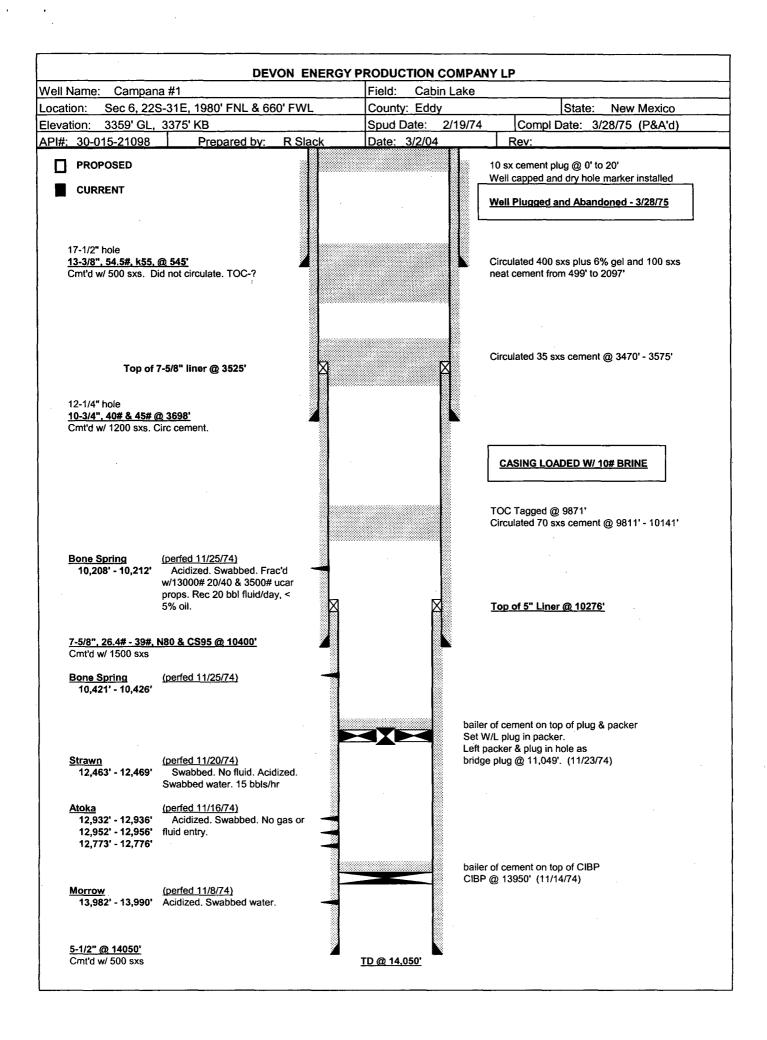
Total Depth: 14,050'

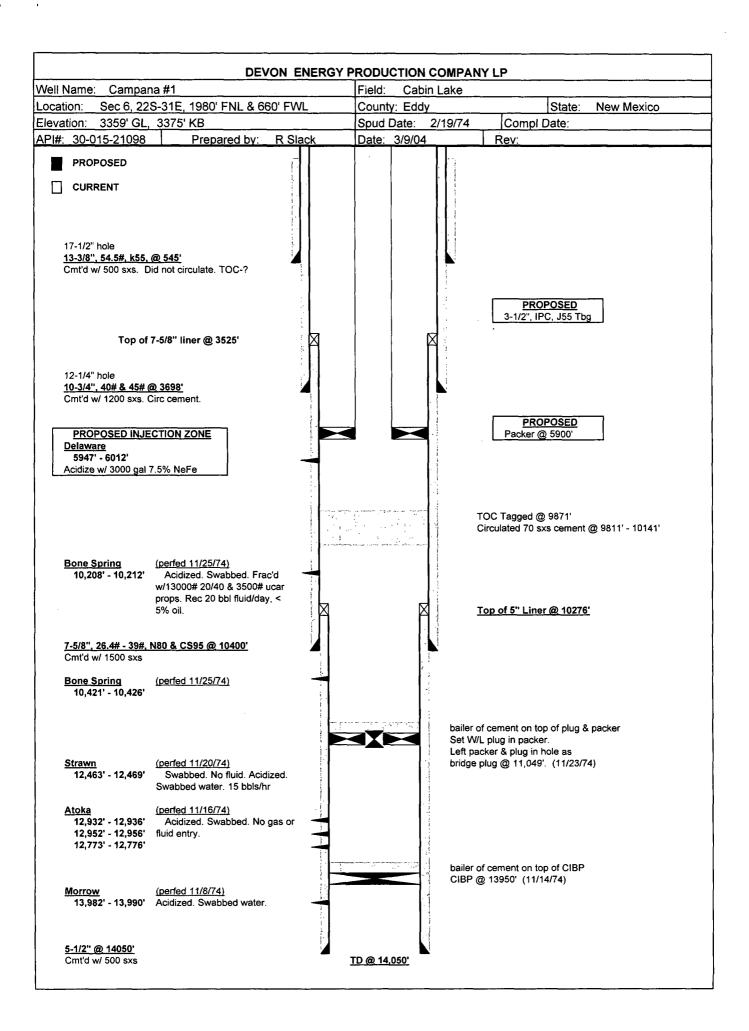
Injection Interval

feet to 6014'

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET





Affidavit of Publication

State of New Mexico, County of Eddy, ss.

Dawn Higgins, being first duly sworn, on oath says:

That she is Business Manager of the Carlsbad Current-Argus, a newspaper published daily at the City of Carlsbad, in said county of Eddy, state of New Mexico and of general paid circulation in said county; that the same is a duly qualified newspaper under the laws of the State wherein legal notices and advertisements may be published; that the printed notice attached hereto was published in the regular and entire edition of said newspaper and not in supplement thereof on the date as follows, to wit:

March 7	2004
	2004
	2004
	2004

That the cost of publication is \$ 38.37 and that payment thereof has been made and will be assessed as court costs.

Subscribed and sworn to before me this

10 day of March, 2004

My commission expires 12-1

Notary Public

March 7, 2004

Legal Notice

Devon Energy Production Company, LP, 20 North Broadway, Ste 1500, Oklahoma City, OK 73102 has-filed form C-108 (Application for Authorization to Inject) with the New Mexico Oil conservation Division seeking administrative approval for an infection well. The proposed well the Campana Fed #1 located 1980' FNL & 660' FWL of Unit E, Section 6, Township 22 South, Range 31 East of Eddy County, New Mexico, will be used for saltwater disposal. Disposal waters from the Delaware Sand will be re-injected into the Delaware Sand at a depth of 5946'-6014' with a maximum pressure of 1000 psi and a maximum rate of 2,000

All interested parties opposing the aforementioned must file objections or requests for a hearing with the Oil Conservation Division, 1220 South Saint Francis Drive, Santa Fe, New, Mexico 87505-5472, within 15 days. Additional information can be obtained by contacting Jim Blount at (405) 228-4301.



Devon Energy Corporation 20 North Broadway Oklahoma City, Oklahoma 73102-8260 Fax 405-552-8113

March 16, 2004

United States Department of the Interior Bureau of Land Management Carlsbad Field Office 620 E. Greene Street Carlsbad, NM 88220

Re: NM NM 97885

Gentlemen:

The records of Devon Energy Production Company, L.P. ("Devon") reflect that Devon is the owner of 100% record title to Federal Oil and Gas Lease NM NM 97885 effective December 1, 1996 covering Lots 3,4,5,SE/4 NW/4 of Section 6-T22S-R31E, Eddy County, New Mexico.

If there are any questions or if additional information is required, feel free to call me at (405) 552-4633.

Yours very truly,

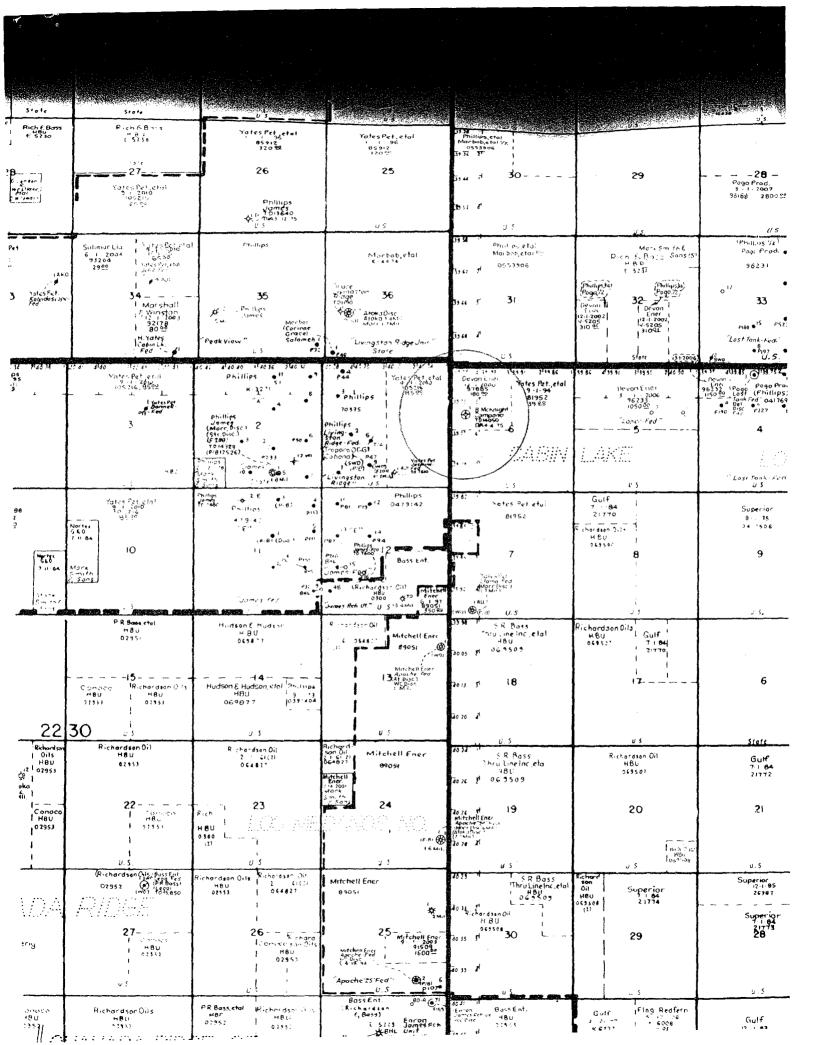
DEVON ENERGY PRODUCTION COMPANY, L.P.

Ken Gray

Senior Land advisor

Campana Fed #1 Form C108 Tabulation of data on wells within area of review

Completion Information Perforations Producing Total Depth Zone Type Spud Operator Well Name
No wells within the half mile radius.





Devon Energy Corporation 20 North Broadway Oklahoma City, Oklahoma 73102-8260

March 17, 2004

Marbob Energy Corporation 2208 W. Main Street Artesia, NM 88211-0227

Gentlemen;

Enclosed please find a copy of form C-108 (Application for Authority to Inject) on Devon Energy Production Company, LP's Campana Fed #1 located in Unit E, Sec 6 T22S R31E of Eddy County, New Mexico.

Should you have any questions, please feel free to contact me at (405)228-4301.

Sincerely,

James Blount

Operations Engineering Advisor

JB/kc

Enclosure



Devon Energy Corporation 20 North Broadway Oklahoma City, Oklahoma 73102-8260

March 17, 2004

Yates Petroleum Corp 105 S. 4th Artesia, NM 88210

Gentlemen;

Enclosed please find a copy of form C-108 (Application for Authority to Inject) on Devon Energy Production Company, LP's Campana Fed #1 located in Unit E, Sec 6 T22S R31E of Eddy County, New Mexico.

Should you have any questions, please feel free to contact me at (405)228-4301.

Sincerely,

kames Blount

Operations Engineering Advisor

JB/kc

Enclosure



Devon Energy Corporation 20 North Broadway Oklahoma City, Oklahoma 73102-8260

March 17, 2004

Conoco Phillips 4001 Penbrook Street Odessa, TX 79762

Gentlemen;

Enclosed please find a copy of form C-108 (Application for Authority to Inject) on Devon Energy Production Company, LP's Campana Fed #1 located in Unit E, Sec 6 T22S R31E of Eddy County, New Mexico.

Should you have any questions, please feel free to contact me at (405)228-4301.

Sincerely,

James Blount

Operations Engineering Advisor

JB/kc

Enclosure

Form 3160-5 (June 1990)

to any matter within its jurisdiction.

UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

FORM APPROVED
Budget Bureau No. 1004-0135
Expires March 31, 1993

	SAND REPORTS ON WELLS If to deepen or reentry to a different reservoir.	5. Lease Designation and Serial No. NMNM97885
	DR PERMIT—" for such proposals	6. If Indian, Allottee or Tribe Name
	IN TRIPLICATE	7. If Unit or CA, Agreement Designation
I. Type of Well ☐ Oil ☐ Gas ☐ Other SWD		
2. Name of Operator DEVON ENERGY PRODUCTION COMPA	ANY, LP.	8. Well Name and No.
3. Address and Telephone No.	KLAHOMA CITY, OKLAHOMA 73102 (405) 2287512	Campana Fed #1 9. API Well No.
		10. Field and Pool, or Exploratory Area
4. Location of Well (Footage, Sec., T., R., M., or Survey	•	Delaware
1980' FNL & 660' FWL, Sec 6 T22S R31E U	omt E	11. County or Parish, State
		Eddy, NM
CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, F	REPORT OR OTHER DATA
TYPE OF SUBMISSION	TYPE OF AC	-
Notice of Intent	Abandonment	Change of Plans
	Recompletion	New Construction
Subsequent Report	Plugging Back	Non-Routine Fracturing
7	Casing Repair	Water Shut-Off
		Conversion to Injection
Final Abandonment Notice	Altering Casing Other	
	Other pertinent details, and give pertinent dates, including estimated date of s	Dispose Water (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)
Describe Proposed or Completed Operations (Clearly state all) subsurface locations and measured and true vertical depths	Other pertinent details, and give pertinent dates, including estimated date of s	Dispose Water (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.) tarting any proposed work. If well is directionally drilled, give
3. Describe Proposed or Completed Operations (Clearly state ally subsurface locations and measured and true vertical depths Devon Energy Production Company, LP., requ	Other pertinent details, and give pertinent dates, including estimated date of s for all markers and zones pertinent to this work.)* Luest approval to convert the referenced well into a	Dispose Water (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.) tarting any proposed work. If well is directionally drilled, give
3. Describe Proposed or Completed Operations (Clearly state all subsurface locations and measured and true vertical depths Devon Energy Production Company, LP., requ 4. I hereby certify that the foregoing is true and correct	Other pertinent details, and give pertinent dates, including estimated date of s for all markers and zones pertinent to this work.)* The details, and give pertinent dates, including estimated date of s for all markers and zones pertinent to this work.)* The details, and give pertinent dates, including estimated date of s for all markers and zones pertinent to this work.)* The details, and give pertinent dates, including estimated date of s for all markers and zones pertinent to this work.)* The details, and give pertinent dates, including estimated date of s for all markers and zones pertinent to this work.)*	Dispose Water (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.) tarting any proposed work. If well is directionally drilled, give SWD. See attached backup documentation
3. Describe Proposed or Completed Operations (Clearly state ally subsurface locations and measured and true vertical depths Devon Energy Production Company, LP., requ 4. I hereby certify that the foregoing is true and correct	Other pertinent details, and give pertinent dates, including estimated date of s for all markers and zones pertinent to this work.)* Luest approval to convert the referenced well into a	Dispose Water (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.) tarting any proposed work. If well is directionally drilled, giv
Describe Proposed or Completed Operations (Clearly state all) subsurface locations and measured and true vertical depths	Other pertinent details, and give pertinent dates, including estimated date of s for all markers and zones pertinent to this work.)* The details, and give pertinent dates, including estimated date of s for all markers and zones pertinent to this work.)* The details, and give pertinent dates, including estimated date of s for all markers and zones pertinent to this work.)* The details, and give pertinent dates, including estimated date of s for all markers and zones pertinent to this work.)* The details, and give pertinent dates, including estimated date of s for all markers and zones pertinent to this work.)*	Dispose Water (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.) tarting any proposed work. If well is directionally drilled, give SWD. See attached backup documentation

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United Statesmy false, fictitious or fraudulent statements or representations a

08 Mar 04 07:13

p.2



Laboratory Services, Inc. 4016 Fiesta Drive

Hobbs, New Mexico 88240 Telephone: (505) 397-3713

Water Analysis

COMPANY Devon Energy		
SAMPLE Apache 24-3		
SAMPLED BY	~~~	
DATE TAKEN		
REMARKS		

The second secon		
Barium as Ba	0	**************************************
Carbonate alkalinity PPM	0	
Bicarbonate alkalinity PPM	92	
pH at Lab	5.87	
Specific Gravity @ 60°F	1.2	
Magnesium as Mg	60,900	
Total Hardness as CaCO3	105,000	
Chlorides as Cl	188,855	The state of the s
Sulfate as SO4	225	
Iron as Fe	45	
Potassium	88	
Hydrogen Sulfide	0	
Rw	0.047	@ 23 ° C
Total Dissolved Solids	294,600	
Calcium as Ca	44,100	
Nitrate	33	
Results reported as Parts per Million unless stated		
La self and Oak mostly at America		
Langelier Saturation Index	0,52	
	A	
	Analysis by:	Vickie Biggs
	Date:	3/5/04

08 Mar 04 07:14

p.3



Laboratory Services, Inc. 4016 Flesta Drive

4016 Flesta Drive Hobbs, New Mexico 88240 Telephone: (505) 397-3713

Water Analysis

COMPANY Devon Energy	4 Th	
SAMPLE Apache 25-6		
SAMPLED BY		
DATE TAKEN		
REMARKS		
Barium as Ba		
Carbonate alkalinity PPM	0	
Bicarbonate alkalinity PPM pH at Lab	80	
	6.05	
Specific Gravity @ 60°F	1.195	
Magnesium as Mg	59, <u>566</u>	
Total Hardness as CaCO3	102,700	
Chlorides as Cl	192,032	
Sulfate as SO4	200	
Iron as Fe	33	
Potassium	85	
Hydrogen Sulfide	0	
Rw	0.046	@ 23°C
Total Dissolved Solids	295,500	
Calcium as Ca	43,134	·
Nitrate	35	
		THUM CHIEF W
,		
Results reported as Parts per Million unless stated		
Langelier Saturation Index	0.65	
	Analysis by:	Vickie Biggs

Analysis by:	Vickie Biggs
Date:	3/5/04

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Form 9-331 (Fay 1963)	UN ED STAT DEPARTMEN OF THE	INTERIOR (Other Instruction verse side)	5. LEASE DESIGNATION AND SERIAL NO
			6. IF INDIAN, ALLOTTEE OR TRIBE NAM
	DRY NOTICES AND RE form for proposals to drill or to dee; Use "APPLICATION FOR PERMIT-	PORIS ON WELLS pen or plug back to a different reserve " for such proposals.)	oir.
1.			7. UNIT AGREEMENT NAME
WELL GAS WELL	M OTHER	RECEIVE	D
2. NAME OF OPERATOR			8. FARM OR LEASE NAME
Byron M. Mc	knight	AHG 9 1974	Campana
3. ADDRESS OF OPERATOR		Add 755%	9. WELL NO.
BOX 297, iled	bs. New Mexico 8824	10	10. FIELD AND POOL, OR WILDCAT
See also space 17 belo At surface	w.)	ARTESIA. OFFICE	
		V	Vildeat 11. SEC., T., B., M., OR BLE. AND
admad become		•	SURVEY OR AREA
1980' FNL an	d 560' FWL, Sec. 6-2	ZS-31E	6-22S-31E
14. PERMIT NO.	15. ELEVATIONS (Sh	ow whether DF, RT, GR, etc.)	12. COUNTY OF PARISH 13. STATE
	3358.5	s' GR	Eddy N2
16.			
		Indicate Nature of Notice, Rep	•
N	OTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:
TEST WATER SHUT-OF	PULL OR ALTER CASING	WATER SHUT-OFF	REPAIRING WELL
FRACTURE TREAT	MULTIPLE COMPLETE	FRACTURE TREATM	LENT ALTERING CASING
SHOOT OR ACIDIZE	ABANDON*	SHOOTING OR ACID	
REPAIR WELL	CHANGE PLANS	(Other) State	ort results of multiple completion on Well
(Other)		Completion	or Recompletion Report and Log form.) ment dates, including estimated date of starting s
lialliburton l		casing, set at 545°, caper sack and 2% CaCl a	
			The second secon
			RECEIVED
			AUG - 6 1974
			U. S. GEOLOGICAL SURVEY
		•	ARTESIA, NEW MEXICO
			•
18. I hereby certify that	the foregoing is true and correct		
SIGNED	My Marine	TITLE Agent	DATE7/30/74
(This space for Fede	ral or State office use)		
APPROVED BY LL	n l	TITLE	D A mize
	PROVAL, IF ANY:		DATE
1074			

*See Instructions on Reverse Side

		N _i M _i C	C. C. COPY		Lagu	1651
m 9-331 ny 1968) DEF	UN ED STA PARTMEN (OF TH GEOLOGICAL	IE INTERI	OR verse side)		Form approve Budget Burea SE DESIGNATION	đ. u No. 42–R1
0111001					NDIAN, ALLOTTEE	OR TRIBE NA
	NOTICES AND R or proposals to drill or to d APPLICATION FOR PERMI		ON WELLS ack to a different reservoir. roposals.)			
	OTHER	K	ECEIVED		T AGREEMENT NA	
NAME OF OPERATOR Byron M. McKni			0.00 1 0 1074		M OR LEASE NAM	E
ADDRESS OF OPERATOR	Kut /	······	SEP 1 8 1974	9. WEI	EDAMA	**
Box 297, Hobbs.	New Mexico 8	240	a c c	1		
LOCATION OF WELL (Report I See also space 17 below.)	ocation clearly and in accor-	dance with any	State requirements:	10. FI	ELD AND POOL, OR	WILDCAT
At surface			AK (==)		doat	- AND
				ł	C., T., R., M., OR B SURVEY OR AREA	LR. AND
1980' FNL and 6	60' FWL, Sec. 6 -	-225-31E		6-9	38-31E	
PERMIT NO.	15. ELEVATIONS (Show whether DF	, RT, GR, etc.)	12. co	UNTY OR PARISH	13. STATE
	3358	.5' GR		Ede	iy	NM
Ch	eck Appropriate Box 7	To Indicate N	lature of Notice, Report	, or Other D	ata	
	OF INTENTION TO:		•	Ubsequent rei		
TEST WATER SHUT-OFF	PULL OR ALTER CAS	ING	WATER SHUT-OFF		REPAIRING W	PRI.T.
FRACTURE TREAT	MULTIPLE COMPLET	1	FRACTURE TREATMENT		ALTERING CA	
SHOOT OR ACIDIZE	ABANDON*		SHOOTING OR ACIDIZIN	ıc	ABANDONMEN	T*
REPAIR WELL	CHANGE PLANS	<u> </u>	(Other)	g liner		
(Other)		1 1		eganita of molt	iple completion of	nn Well
nent to this work.) * 9/16/74:	s directionally drilled, give	subsurface loca	Completion or R t details, and give pertinent tions and mensured and true	ecompletion Re dates, includir vertical depths	port and Log for ag estimated date a for all markers	m.) of starting
9/10/74: Ran 7 5/8" (394) 3525' to 19,409', Salt, 36 Gilsonit	s directionally drilled, give 33.75, 29.75 a comented with to and if flocale	subsurface loca 26.45, Si 1360 sack: per sack;	t details, and give pertinent	casing 1 .63 Hala	port and Log for gestimated date for all markers iner from 22, 34	m.) c of starting and zones
9/10/74: Ran 7 5/8" (394) 3525' to 19,409', Salt, 36 Gilsonit	s directionally drilled, give 33.75, 29.75 a comented with to and if flocale	subsurface loca 26.45, Si 1360 sack: per sack;	t details, and give pertinent tions and mensured and true Rd N-80 a C3-95) B Howco Lite with 260 sacks Class	casing 1 .63 Hals "H" with 30 min.	port and Log for a gestimated date for all markers liner from a 22, 34 . St. Halso	m.) of starting and zones
9/10/74: Ran 7 5/8" (394) 3525' to 19,409', Salt, 36 Gilsonit	s directionally drilled, give 33.75, 29.75 a comented with to and if flocale	subsurface loca 26.45, Si 1360 sack: per sack;	t details, and give pertinent tions and mensured and true Rd N-80 a C3-95) B Howco Lite with 260 sacks Class	casing 1 .63 Hals "H" with 30 min.	RECE	m.) of starting and zones
9/10/74: Ran 7 5/8" (394) 3525' to 19,400', Salt, 36 Gilsonit	s directionally drilled, give 33.75, 29.75 a comented with to and if flocale	subsurface loca 26.45, Si 1360 sack: per sack;	t details, and give pertinent tions and mensured and true Rd N-80 a C3-95) B Howco Lite with 260 sacks Class	casing 1 .63 Hals "H" with 36 min.	RECE SEP 17	ivel
proposed work. If well inent to this work.)* 9/10/74: Ran 7 5/8" (394 3525' to 19.400', Salt, 34 Gilsonit 22 and 34 Salt p	, 33.75, 29.75 a comented with the and if flocele our sack. WOC 1	subsurface loca 26.45, Si 1360 sack: per sack;	t details, and give pertinent tions and mensured and true Rd N-80 a C3-95) B Howco Lite with 260 sacks Class	casing lines with 30 min.	RECE SEP 17	in.) of starting and zones
9/10/74: Ran 7 5/8" (394) 3525' to 19,400', Salt, 36 Gilsonit	, 33.75, 29.75 a comented with the and if flocele our sack. WOC 1	subsurface loca 26.45, Si 1360 sack: per sack;	t details, and give pertinent tions and mensured and true Rd N-80 a CS-95) B Howco Lite with 200 sacks Class Tested to 15005	casing lands with 36 min.	RECE SEP 17 S. GEOLOGICARTESIA, NEW	in.) of starting and zones 1974 AL SURVEY MEXICO
proposed work. If well inent to this work.)* 9/19/74: Ran 7 5/8" (394 3525' to 19.400', Salt, 34 Gilsonit 22 and 34 Salt p	, 33.75, 29.75 a comented with the and if flocele our sack. WOC 1	subsurface loca 26.45, Si 1360 sack: per sack;	t details, and give pertinent tions and mensured and true Rd N-80 a C3-95) B Howco Lite with 260 sacks Class	casing lands with 36 min.	RECE SEP 17	in.) of starting and zones 1974 AL SURVEY MEXICO
proposed work. If well inent to this work.)* 9/16/74: Ran 7 5/8" (394 3525' to 19,409', Salt, 36 Gilsonit 22 and 36 Salt p	s directionally drilled, give 33.75, 29.75 a comented with and if flocale ar sack. WOC 1	26.45, 81 1300 eack; per sack; 16 hours.	t details, and give pertinent tions and mensured and true Rd N-80 a CS-95) B Howco Lite with 200 sacks Class Tested to 15005	casing lands with 36 min.	RECE SEP 17 S. GEOLOGICARTESIA, NEW	in.) of starting and zones 1974 AL SURVEY MEXICO
proposed work. If well inent to this work.) 9/10/74: Ran 7 5/8" (304 3525' to 10,400', Salt, 34 Gilsonit 22 and 34 Salt p	s directionally drilled, give 33.75, 29.75 a comented with and if flocale ar sack. WOC 1	26.45, 81 1300 eack; per sack; 16 hours.	t details, and give pertinent tions and mensured and true Rd N-80 a CS-95) B Howco Lite with 200 sacks Class Tested to 15005	casing 1 .63 Hals "H" with 30 min.	RECE SEP 17 S. GEOLOGICARTESIA, NEW	in.) of starting and zones 11171 1974 AL SURVEY MEXICO

*See Instructions on Reverse Side

. 41					Chipain	A .	
Form 9-331	(**	TED STATI	FS	SUBMIT IN TI ICA	TE. For	na approved. daet Bureau No.	
(May 1963)	DEPARTM	NT OF THE	INTERI		Te 5. LEASE DE	diet Bureau No.	42-R1424
		OLOGICAL SU		O 12 (0100 mm)			
						ALFOTTER OR TR	IBB NAME
		ES AND REP				,	
(Do not use this	form for proposals Use "APPLICATI	o to drill or to deep ON FOR PERMIT—	en or plug be "for such pr	ack to a different reservoir. opossis.)			•
1.					7. UNIT AGRI	EMBNT NAME	
OIL GAS WELL	OTHER	Ont	100	ECEIVED			
2. NAME OF OPERATOR	1. 1.	PEA	K_	<u> </u>	8. FARM OR	LEASE NAME	
Toppana Oli	-			4076	Campa	6. 41.	
3. ADDRESS OF OPERATOR	A COUS COME	DESTRUCTION OF THE PROPERTY OF		MAY 1 1 1976	· Campar		
ene us all all.	4.6.2 m2.0 m m m4	T 7646					
4. LOCATION OF WELL (1. See also space 17 bell	report location clea	rly and in accordance	e with any s	State requirements.	10. FIELD AT	D POOL, OR WILDO	AT
See also space 17 belo At surface)W.)			ARTESIA, OFFICE	Cabin	l retem	
enions that e	cent Eur	6			11. SEC., T.,	B., M., OR BLK. AND	,
1920' FNL E	pon. Lat	Sec. 6,	1225, 1	731E	SULVE	Y OR ARMA	
					Sec. 6	T225, R3	11E
14. PERMIT NO.		15. ELEVATIONS (Show	v whether DF,	RT, QR, etc.)	12. COUNTY	OR PARISH 13. 8:	
		KB 337	e		Start Start		RA.
16.	CI I A		-,-	. ()	Eddy		
	Check Appr	opriate Box 10 I	ndicate N	ature of Notice, Report,	or Other Data		
:	NOTICE OF INTENTIO	N TO:		. 80	BEEQUENT REPORT O	F:	
TEST WATER SHUT-O	FF PUI	LL OR ALTER CASING		WATER SHUT-OFF	R	BPAIRING WELL	
FRACTURE TREAT	MU	LTIPLE COMPLETE		FRACTURE TREATMENT	A.	LTERING CASING	
SHOOT OR ACIDIZE	ABA	NDON*		SHOOTING OR ACIDIZING		BANDONMENT*	¥
REPAIR WELL	Сн.	ANGE PLANS		(Other)			
(Other)				(Note: Report re Completion or Rec	sults of multiple completion Report a	mpletion on Well	1
11-23-74: 3-25-75:				,950° and dumped			:
3"43"13;	Pulled tubli	ng. Dumped	i baller	10# brine and pu of cament above i			•
	•	pletion attem	•				
3-26-75:				ment to 9811' - 10,			
				rs then tagged to			
	Circulated	300 bbl. SW	with 25	sx. gai per 100	bbl. Into he	ile.	٠.
3-27-75:	Pulled tubir	ng to 3575'	top of	liner 3525') and c	irculated 35	sx. Class	
				rval 3470' - 3575'			
				and 100 sx Neat			
		-	-	9 m	بس مد به <u>ب</u>		ieve
				iled marker. PEA	RECEN	Stemanta te	,
	to 20 , Ou,	hhan matt at	in iiism	new manter. Feat	"" CEN	11-	**
				•	1-	'ED ;	
					APR	•	
				U . S.	19	⁷ 5	
				AR	TECH OGICAL SI		
					GEOLOGICAL SI TESIA, NEW MEX	RVEY	
18. I hereby certify that	the foregoing is to	me and correct		11 1 100 0	·*/CA	CO	
13.	Oran seed	tut 2115 torrets	2/	Dollar Delan S	_	:	
SIGNED	Portilla.	T	ITLE	may organis	DATE	4/4/75	
(This space for Fede	ral or State office	use)		<u> </u>	<u></u>		
ATTOR OTHER THAN	= 17 \		mr v			•	
CONDITIONS OF A	PPROVAL, IF AND	7:	ITLE		DATE		
1 6 4076	i	•			•	Ded.	
MAY						مع الم	1

*See Instructions on Reverse Side

Frater 15

N. M. O. C. COPY

UNI _D STATES

DEPARTMENT OF THE INTERIOR

(See other in-structions on

Form approved. Budget Bureau No. 42-R355.5.

	GE	OLOGICAL SU	RVEY	reverse side)	NM 03	53797
WELL CON	APLETION O	R RECOMPLETI	ON REPORT	AND LOG*	6. IF INDIAN, ALLOT	TEE OR TRIBE NAME
16. TYPE OF WELL			BY Other		7. UNIT AGREEMENT	NAMB
b. TYPE OF COMP	LETION:					
	OVER DEEP-	BACK DIFF	vn. Other		S. FARM OR LEASE	
2. NAME OF OPERATO		· // —			9. WELL NO.	V <i>P</i> 4
3. ADDRESS OF OPER	ATOR	KNIBAT	REC	EIVED	U. W. 222 W. /	
				1076	10. FIELD AND POOL	, OR WILDCAT
4. LOCATION OF WELL	L (Report location cl	early and in accordance	with any State And Fre	A-1019/0		LAKE I.C.
At surface	980/N 6	60/W SEC	•		11. SEC., T., R., M., C OR AREA	R BLOCK AND SURVEY
At top prod. inte	rval reported below			. C. C. SIA, OFFICE	/ ₂ - 2	LZ 5 - 3/A
At total depth			· · · · · · · · · · · · · · · · · · ·			
		14. PE	RMIT NO.	ATE ISSUED	12. COUNTY OR PARISH	13. STATE
15. DATE SPUDDED	16. DATE T.D. REACH	HED 17. DATE COMPL.	(Ready to prod.) 18	ELEVATIONS (DF. REB, R	EDDY T. GR. ETC.) 19. 1	1
2-19-74		3-28-75	. / 4 1	3375,5 RK	I	-
20. TOTAL DEPTH. MD &	TVD 21. PLUG, BA		. IF MULTIPLE COMPL.,	23. INTERVALS	ROTARY TOOLS	CABLE TOOLS
14050	10 am	PLETION—TOP, BOTTOM,	NAME (NO AND THOUSE	<u></u> → 6	7-14,050	. WAS DIRECTIONAL
		FEETION—TOP, BOITOM,	REAL (MD AND IVD)] ~~	SURVEY MADE
NONE			•			No
26. TYPE ELECTRIC AN						AS WELL CORED
SWNP, E	DLL, MIL		ND / Panent all atrings	not in spell		10
CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	RD (Report all strings	CEMENTING I	RECORD	AMOUNT PULLED
13%	48#11-10	545	17/2"	500 sx		None
1031	40# 45# J-5	3700	124"	Cinc. Gent		NONE
4岁"		_				
29.	LIN	ER RECORD	11	1		
SIZE	TOP (MD) BO	TTOM (MD) SACKS C	EMENT* SCREEN (MI	38. GE0	OLOGIC MARKERS	•
736"	3:525 /6		0 %	NAME		TOP
31. PERFORATION RECO		nd number)	<u> </u>		MEAS. DEPTH	TRUE VERT. DEPTH
This Res	are 1 Lors	spiled from	DEPTH INT	×	+70	•
- Maria	Tom lis	- well for	lder	SALT		
To Byn		ght was		BEAL CANGO	1 3600	
billed	in aring	line Cus	<u> </u>	BONE SPRING	5 7475	
33.•			PRODUCTION	WELFORMS	10,530	-
DATE FIRST PRODUCTIO	10 0	ON METHOD (Flowing, go	as lift, pumping—size c	lí		/
DATE OF TEST	HOURS TESTED		N. FOR OIL—BBL.	Ciseo	11,230	
	10		PERIOD	CANGON	11,430	
LTOW HEGERAL	CASING PRESSURE	CALCULATED OIL—1	BBL. GAS-	STRAWN	11,930	
34. DISPOSITION OF OA	A lold, used for fuel	I, vented, etc.)			12,180	
TUIYAM	or west.	. , ,		AtoKA	Ī	.
SOLUTION ATTACLE	IL SURAFA			MORRES	12,380	
MAY 1 OF ATTACKEN S. GEOLOGICA NEW MAY 1 OF ATTACKEN HEW	that the foregoing at	nd attached information	is complete and cover	14:33	13,500	
Wu	15.16		THE ADE:	12416	- Transpic lectric	16 -76
CICKED /A	" L' 1 / KLADI		TYPE HILLE	11 161 3	~ J	

W	COMPAGNIA S.	· · · · · · · · · · · · · · · · · · ·							4 0		
COUNTY	EDDYUndesignated						© Copyrighted Reproduction Prohibited STATE NM				
OPR	See WILL DIST ON						AP 30-015-21098				
MO		Campana							LO NM		
		<u>-22-S, R-31</u>					шар			• .•	
	1980' FN	L, 660' FWL	of Se	<u>c</u>			00-00	10			
							ELEV			. <u>L 8.5</u>	
940 356	2-19-74	cue 4-4-75	we	LL CLASS:	HOLT.	D	FIN	D.			
CSG				FORMATI	CN	DATUM	FORMAT	ON	DATUM		
1.3	3/8" at 4	54 ° √/500 s	x [
10	3/4" at 3	698° w/1200	8% <u> </u>				<u>. L</u>				
1 5	/8" Int 3	525-10,400°	w/ 1.5 <mark>0</mark>	0 sx							
5 '	Inr 10,27	6-14,050° w	/500 s	x							
			[.			<u> </u>			-		
			מד	14.0	30 °	(MSSP)	PBD				
985	& ABANDO	GEN									

course Brahaney com/selev 3359° GL, 3375° KNO 13,800° km

```
F.R. 1-14-74
              (Morrow)
             Drlg 58'
2-27-74
              Drlg 100'
3-6-74
              Drlg 131'
3-13-74
              Drlg 170' sdy sh
3-20-74
3-21-74
              Dr 1g 225
4-3-74
              Dr1g 228'
4-10-74
              Dr lg 234 1
             Dr lg 241'
4-17-74
4-24-74
              Drilg 243
              Drlg 250'
5-1-74
              Drlg 253 Drlg 310
5-8-74
5-15-74
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NM
                         Undesignated
E DDY
                                                       Page #2
                         1 Campana
MC KNIGHT, BYRON
                         Sec 6, T22S, R31E
             Drlg 351'
5-22-74
             Drlg 367' 1m
5-29-74
             Drlg 385'
6-5-74
6-10-74
             Drlg 391'
             Drlg 396'
6-17-74
             Drlg 430'
6-26-74
             TD 440; WORT
7-10-74
             TD 545'; Prep Run csg
7-18-74
             Drlg 2800'
7-24-74
7-30-74
             Drlg 4187; Anhy & 1m
             Drlg 7830'
8-7-74
             Dr.lg 9740'
8-14-74
             Drlg 10,730'
8-21-74
                                                       5-1-10 NM
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TD 11,403'; Rng 7 5/8" csg
8 - 28 - 74
             TD 11,403'; Fshg
9-3-74
             TD 11,403'; Prep Run 7 5/8" csg
9-10-74
             Rec Fish
             Drlg 11,991'
9-18-74
9-20-74
             Drlg 12,368'
             Drlg 13,047
10-2-74
10-9-74
             Drlg 13,737'
             TD 14,050'; Prep Run SP-DST
10-15-74
10-22-74
             TD 14,050'; Waiting to MORT
             SP-DST 13,355-463'; Pkr Failed
11-6-74
             TD 14,050'; WOCU
             TD 14,050'; Prep Acid
11-13-74
             Perf 13,982-990' w/2 SPF
11-20-74
             TD 14,050'; Prep Perf Strawn
```

- 11-8-74 Perforated Morrow Zone at 13,982'-13,990' with two shots per foot with casing gun.
- 11-12-74 Acidized above perforatins with 500 gal. Morroflo acid and swabbed formation water at 20 bbl. per hour.
- 11-14-74 Set 10,000 psig bridge plug at 13,950'-13,951\frac{1}{2} with wireline. Pumped baller of cement on plug.
- 11-16-74 Perforated 12,952'-12,956', 12,932'-12,936' with 5 jet shots in each zone and 12,773'-12,776' with 3 jet shots through tubing.
- 11-18-74 Acidized above perforations with 1000 gai. regular 15% acid and ball sealers. Swabbed down, no gas or fluid recovery.
- 11-20-74 Perforated Strawn at 12,463'-12,469' with 4 jet shots per foot through tubing. Swabbed down and recovered no formation fluids.
- 11-21-74 Acidized with 1000 gais. ME acid and ball sealers to divert acid. Swabbed formation water at 15 bbl. per hour.
- 11-23-74 Set wireline plug in top of packer. Pressured to 5000 psig to test. Left packer and plug in hole as bridge plug at 11,049'.
- 11-25-74 Perforated Bone Springs at 10,421½'-10,426½' with 4 casing jet shots per foot and 10,208½'-10,212½' with 4 jet shots per foot.
- 11-27-74 Acidized above perforations with 3000 gal. retarded 20% and benzoate diverter with packer set at 10,1411. Swabbed water out with small amount of oil and gas. Swabbed down.
- 12-2-74 Fraced Bone Springs perfs. with 17,000 gai. of Lo Gel 143 with 13,000# of 20-40 sand and 3,500# Ucar props. Flowed and swabbed. Recovered oil and gas cut, water at approximate rate of 20 bbl. fluid per day, less than 5% oil.

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APR - 3 1975

U. S. GEOLOGICAL SURVEY ARTESIA, NEW MEXICO E DDY Undesignated NM Fage #3 MC KNIGHT, BYKON 1 Campana Sec 6, T22S, R31E 11-20-74 Continued Acid (13,982-990') 200 gals Swbd wtr (13,982-9901) Perf (Atoka) 12,773-7761, 12,932-9361, 12,952-9561 Acid (12,773-956) 1000 gals Flwd Est 100 MCFGPD (12,773~956 ') TD 14,050; PBD 10,500 Swbg Ld. 12-4-74 Perf (Strawn) 12,463-469 w/4 SPF Acid (12,463-469') 1000 gals Swbd GC Salt wtr (12,463-469) PB to 10,500! Perf (Bone Spring) 10,208-212', 10,421-426' w/4 SPF Acid (10,208-426') 3000 gals 5-1-10 NM

12-4-74	Continued
	Frac (10,208-426') 24,990 gals + 16,500# sd
1-6-75	TD 14,050'; PBD 10,500'; Tstg
3-3-75	TD 14,050'; PBD 10,500'; Prep D&A
	Swbd Salt wtr w/trace oil (10,208-426')
3-24-75	TD 14,050'; PBD 10,500'; Prep D&A
4-14-75	TD 14,050'; D&A (Hold)
4-28-75	TD 14,050'; Dry & Abandoned
5-3-75	COMPLETION ISSUED

- A. Completed as per verbal report to USGS engineer at Artesia:
 - 1. Ran 5" liner (18.5#) from 10,276' to 14,950', cemented with 500 sx. Class H w/1# flocele per sx. Top of liner tested to 5000#, after drilling circulated cement.
 - 2. Perforated, acidized, tested and plugged as follows;
 - a. Perforated Lower Morrow at 13,982'-13,990' w/2 shots per ft. Acidized w/1000 gal. Tested water.
 - b. Set wireline bridge plug at 13,950'-13,9511'. Ran 30' bailer of cement.
 - c. Perforated Atoka at 12,773'-12,776', 12,932'-12,936' & 12,952'-12,956' w/13 holes. Acidized with 1999 gal. 15% HCl. Tested trace gas, no oil or water.
 - d. Perforated Strawn Lime at 12,463'-12,469' with 4 perf. per ft. Acidized with 1000 gal. ME acid plus balls. Recovered gas cut salt water.
 - e. Packer was set at 11,012' from datum before above tests. 1.81" plug set in nipple on Guiberson Uni VI pkr. Pressured up to 5000\$.
 - f. Perforated 19,208½'-19,212½' & 19,421½'=19,426½' by GR w/4 perf. per foot. Swab tested.
 - (1) Acidized with 3000 gal. retarded 20% acid. Tested.
 - (2) Fracture treatment with 16,500# sand and glass beads in total fluid of 24,990 gal. of pad, frac & flush. Tested sw with trace oil.
- B. To be abandoned as follows as per discussion with USGS engineer.
 - 1. Pull packer and plug at 11,912; set 199' of cement or more at 12,690'-700', 12,300'-400' a 10,100'-200'.
 - 2. If unable to pull packer, pump 150 sx. cement below packer, then set plug at 10,100'-300' by circulation.
 - 3. Set 100' cement plug at 3425'-3535' at top of 7 5/8" liner by circulating plug to position.
 - 4. Set 1500' cement plug in 10 3/4" casing from 500' to 2000' by circulating plug to position.
 - 5. Set 20' cement plug in top of 10 3/4" casing a set 4'-4" marker in top.

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FEB - 7 1975

U.S. GEOLOGICAL SURVEY ARTESIA, NEW MEXICO

