State of New Mexico Energy, Minerals and Natural Resources Department

Michelle Lujan Grisham Governor

Sarah Cottrell Propst Cabinet Secretary

Todd E. Leahy, JD, PhD Deputy Secretary Gabriel Wade, Acting Director Oil Conservation Division



Administrative Order WFX-988 March 15, 2019



ADMINISTRATIVE ORDER OF THE OIL CONSERVATION DIVISION

Under the provisions of Division Order R-2914 (as amended), Seely Oil Company (OGRID No. 20497) has made application to the Division for approval to add one additional injection well to its E-K Queen Unit (EKQU) Waterflood Project in the E-K; Yates-Seven Rivers-Queen Pool (Pool code 19950) in Lea County, New Mexico. This well is being proposed as an injection well into the Unitized interval, within the Queen formation of the EKQU.

THE DIVISION DIRECTOR FINDS THAT:

The application has been duly filed under the provisions of Division Rule 19.15.26.8(B) NMAC and satisfactory information has been provided that affected parties as defined in said rule have been notified and no objections remain outstanding. The subject well is eligible for conversion to injection under the terms of that rule. The applicant has presented satisfactory evidence that all requirements prescribed in Rule 19.15.26.8 NMAC have been met and the operator is in compliance with Rule 19.15.5.9 NMAC.

The proposed expansion of the above-referenced waterflood project, will prevent waste, is in the best interests of conservation, will not impair correlative rights, and should be approved.

IT IS THEREFORE ORDERED THAT:

Seely Oil Co., as operator, is hereby authorized to inject water into the following well for the purpose of secondary recovery through plastic-lined tubing set into a packer:

API No.	Well	Unit	Sec	Twp	Rng	Footage N/S	Footage E/W
30-025-36368	E-K Queen Unit No. 111	J	13	18 S	33 E	1650' FSL	2160' FEL

The approved injection interval for this well is into the Queen formation from an approximate perforated depth of 4360 feet to a maximum perforated depth of 4367 feet.

The approved injection interval (Unitized Formation) for the well is the Queen formation "in the interval from the top of the Queen Sand or Artesia Red Sand member as is picked at 4,352 feet on the Gamma Ray-Neutron Log in the Carper Drilling Company's Carper-Sivley Well No. 9

Administrative Order WFX-988 Seely Oil Co. March 15, 2019 Page 2 of 3

(API No. 30-025-01634), now designated the E-K Queen Unit Well No. 19, located 1980 feet from the South line and 1650 feet from the East line (Unit J) of Section 24, Township 18 South, Range 33 East, NMPM, Lea County New Mexico, 200 feet downward. All depths are included in the Queen formation of the Guadalupian Series, a part of the Permian System, insofar as the same lies within the Unit Area." [Source: Case No. 3255; Commissioner of Public Lands, State of New Mexico correspondence dated January 10, 2003 and titled "Re: Amendment to Unit Agreement, EK Queen Unit, Lea County, NM".]

The wellhead injection pressure on the well shall be limited to **no more than 872 psi.** In addition, the disposal well or system shall be equipped with a pressure limiting device in workable condition which shall, at all times, limit surface tubing pressure to the maximum allowable pressure for this well. The operator shall set the injection packer no more than 100 feet above the shallowest perforation for the permitted injection interval for the well in the application.

IT IS FURTHER ORDERED THAT:

The operator shall take all steps necessary to ensure that the injected fluid enters only the approved injection interval and is not permitted to escape to other formations or onto the surface.

After installing tubing, the casing-tubing annulus shall be loaded with an inert fluid and equipped with a pressure gauge or an approved leak detection device in order to determine leakage in the casing, tubing, or packer. The casing shall be pressure tested from the surface to the packer setting depth to assure casing integrity.

The well shall pass an initial mechanical integrity test ("MIT") prior to initially commencing injection and prior to resuming injection each time any injection packer is unseated. All MIT testing procedures and schedules shall follow the requirements in Rule 19.15.26.11(A) NMAC. The Division Director retains the right to require at any time wireline verification of completion and packer setting depths in this well.

The wellhead injection pressure on this well shall be limited as listed above. In addition, the injection well or header system shall be equipped with a pressure limiting device in workable condition which shall, at all times, limit surface tubing pressures to the maximum allowable pressures for this well.

Subject to the limitations within the hearing order permitting this project, the Director of the Division may authorize an increase in tubing pressure upon a proper showing by the operator of said well that such higher pressure will not result in migration of the injected fluids from the approved injection interval. Such proper showing shall be demonstrated by sufficient evidence including but not limited to an acceptable Step-Rate Test.

The operator shall notify the supervisor of the Division's District I office of the date and time of the installation of injection equipment and of any MIT test so that the same may be inspected and witnessed. The operator shall provide written notice of the date of commencement of injection to the District I office. The operator shall submit monthly reports of the disposal operations on Division Form C-115, in accordance with Rules 19.15.26.13 and 19.15.7.24 NMAC.

Without limitation on the duties of the operator as provided in Rules 19.15.29 and 19.15.30 NMAC, or otherwise, the operator shall immediately notify the District I office of any failure of the tubing, casing or packer in the approved injection well, or of any leakage or release of water, oil or gas from around any produced or plugged and abandoned well in the area, and shall take such measures as may be timely and necessary to correct such failure or leakage.

The injection authority granted under this order is not transferable except upon division approval. The division may require the operator to demonstrate mechanical integrity of any injection well that will be transferred prior to approving transfer of authority to inject.

The Division may revoke this injection permit after notice and hearing if the operator is in violation of Rule 19.15.5.9 NMAC.

Compliance with this order does not relieve the operator of the obligation to comply with other applicable federal, state or local laws or rules, or to exercise due care for the protection of fresh water, public health and safety and the environment.

<u>PROVIDED FURTHER THAT</u>, jurisdiction is retained by the Division for the entry of such further orders as may be necessary for the prevention of waste and/or protection of correlative rights or upon failure of the operator to conduct operations (1) to protect fresh or protectable waters or (2) consistent with the requirements in this order, whereupon the Division may, after notice and hearing, terminate the disposal authority granted herein. The subject well shall be governed by all provisions of Division Order No. R-2914, as amended, and associated administrative orders.

The injection authority granted herein shall terminate one (1) year after the effective date of this order if the operator has not commenced injection operations into the subject well, provided however, the Division, upon written request by the operator received prior to the one-year deadline, may grant an extension thereof for good cause shown.

GABRIEL WADE

Director

GW/mam

cc: New Mexico Oil Conservation Division – Hobbs

Bureau of Land Management – Carlsbad Well File – 30-025-36368

Case File No. 4746

NA.				Revised March 23, 2017
RECEIVED: 09/06/2016	REVIEWER:	TYPE: UPY ABOVE THIS TABLE FOR OCD DIVISION	APP NO: 0 mAm 19	250 48669
	- Geologi	CO OIL CONSERVATION COIL COIL COIL COIL COIL COIL COIL COIL	ureau –	
THIS CHECKL	IST IS MANDATORY FOR A	RATIVE APPLICATION ALL ADMINISTRATIVE APPLICATION EQUIRE PROCESSING AT THE DIVI	NS FOR EXCEPTIONS TO D	ivision rules and
Applicant: Seely Oil Co. Well Name: E-K Queen U Pool: E-K; Yates-Seven Rive	nit 111	EQUIRE PROCESSING AT THE DIVI.	OGRID API: 30-02	Number: 20497 25-36368 de: 19950
1) TYPE OF APPLICATION A. Location – Sport NSL B. Check one or [1] Comming	ON: Check those acing Unit – Simu NSP(F nly for [1] or [11] ing – Storage – N	INDICATED BELOW which apply for [A] Itaneous Dedication PROJECT AREA) Measurement	ORATION UNIT) SD	ETYPE OF APPLICATION WEX-981
2) NOTIFICATION REQ A. Offset oper B. Royalty, ov C. Application D. Notification E. Notification	ators or lease ho erriding royalty on requires publish n and/or concurr n and/or concurr	those which apply. Iders which apply.	□ PPR	FOR OCD ONLY Notice Complete Application Content Complete
H. No notice r 3) CERTIFICATION: I he administrative apprunderstand that no notifications are sub	e above, proof of equired ereby certify that roval is accurate action will be tapmitted to the Direction		Itted with this app best of my knowl n until the require	olication for edge. I also ed information and
Note: Stat	ement must be comple	eted by an individual with mar	nagerial and/or supervi	sory capacity.
Brian Wood			9-5-18 Date	

505 466-8120 Phone Number

e-mail Address

brian@permitswest.com

Signature

Print or Type Name

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 June 10, 2003

APPLICATION FOR AUTHORIZATION TO INJECT

I.	PURPOSE: XXX Secondary Recovery Pressure Maintenance Disposal Storage Application qualifies for administrative approval? XXX Yes No
II.	OPERATOR: SEELY OIL CO.
	ADDRESS: 815 WEST 10TH ST., FT. WORTH, TX 76102
	CONTACT PARTY: BRIAN WOOD (PERMITS WEST, INC.) PHONE: 505 466-8120
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 XXX No If yes, give the Division order number authorizing the project: R-2913 & R-2914
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. E-K QUEEN UNIT 111
VII.	Attach data on the proposed operation, including: 30-025-36368
	 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 if other 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 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.
	Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
	NAME: BRIAN WOOD TITLE: CONSULTANT
	SIGNATURE:DATE: AUG. 20, 2018
	E-MAIL ADDRESS: brian@permitswest.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:

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 one-half 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.

SEELY OIL CO.

OPERATOR:

Method Determined: CALCULATED Method Determined: CIRCULATED Ħ3 \mathfrak{H}^3 $\mathfrak{t}_{\mathfrak{J}}$ RANGE 33 E 8.625" 5 5 Method Determined: WELL CONSTRUCTION DATA (Perforated or Open Hole; indicate which) TOWNSHIP Casing Size: 18 S Casing Size: Casing Size: 4360 feet to 4367' Intermediate Casing Production Casing Injection Interval Surface Casing or 0 or SX. SX. SX. SECTION 13 SURFACE 7.875" 1690' 4487 700 11" 480 Cemented with: Cemented with: Top of Cement: Top of Cement: Cemented with: Top of Cement: Total Depth: Hole Size: UNIT LETTER Hole Size: Hole Size: Ь TOC (480 sx) = GLQueen perforated 4360' - 4367' 11" hole @ 1770' 7.875" hole @ 4486' TOC (700 sx) = 1690 E-K QUEEN UNIT 111 8.625" 24# in WELL LOCATION: 1650' FSL & 2160' FEL 5.5" 15.5# in FOOTAGE LOCATION WELLBORE SCHEMATIC (not to scale) PBTD 4409' "As Is" TD 4487' 2-3/8" tbg @ 4370' uo backer WELL NAME & NUMBER:

SEELY OIL CO.

OPERATOR:

INJECTION WELL DATA SHEET

Method Determined: CALCULATED Method Determined: CIRCULATED $\mathfrak{t}_{\mathfrak{J}}$ \mathfrak{H}^3 ff RANGE 33 E 8.625" 5.5" WELL CONSTRUCTION DATA Method Determined: (Perforated or Open Hole; indicate which) TOWNSHIP Casing Size: Casing Size: Casing Size: 18 S 4360 feet to 4367' Intermediate Casing Production Casing Injection Interval Surface Casing or or ō SX. SX. SX. SECTION SURFACE 7.875" 4487' 1690' 700 11" 480 Cemented with: Cemented with: Top of Cement: Cemented with: Top of Cement: Top of Cement: Total Depth: UNIT LETTER Hole Size: Hole Size: Hole Size: h TOC (480 sx) = GL5.5" 15.5# in 7.875" hole @ 4486' TOC (700 sx) = 1690 Queen perforated 4360' - 4367' 11" hole @ 1770' QUEEN UNIT 111 8.625" 24# in WELL LOCATION: 1650' FSL & 2160' FEL FOOTAGE LOCATION WELLBORE SCHEMATIC E-K (not to scale) **PROPOSED** PBTD 4409' TD 4487' Will set IPC 2.375" tbg @ 4300' WELL NAME & NUMBER: Will set packer @ ≈4300'

INJECTION WELL DATA SHEET

Tr	Tubing Size: 2-3/8" J-55 4.7# Lining Material: INTERNAL PLASTIC COAT
Ę,	Type of Packer: PLASTIC LINED AD-I
Pē	Packer Setting Depth: 4300'
Ò	Other Type of Tubing/Casing Seal (if applicable):
	Additional Data
Τ.	Is this a new well drilled for injection?
	If no, for what purpose was the well originally drilled? QUEEN OIL WELL
2.	Name of the Injection Formation: QUEEN
3.	Name of Field or Pool (if applicable): E-K; YATES-SEVEN RIVERS-QUEEN (POOL CODE 19950)
4.	Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used.
	NO - WILL USE EXISTING PERFS (4360' - 4367')
5.	Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:
	OVER: YATES (3170') & SEVEN RIVERS (3576')
	UNDER: DELWARE (5300') & BONE SPRING (8300')

LEA COUNTY, NM

30-025-36368

I. Plan is to convert a 4487' deep oil well to a water injection well to increase oil recovery. The well will inject through existing perforations (4360' - 4367') into the Queen, which is in the E-K; Yates-Seven Rivers-Queen Pool (pool code 19950). The well and zone are in the E-K Queen Unit. Unit and waterflood were established by Socony Mobil in 1965 via Orders R-2913 and R-2914. There have been 2 subsequent WFX approvals (-474 and -807). This is an active water flood. Nine water injectors are in the Unit.

II. Operator: Seely Oil Co.

(OGRID 20497)

Operator phone number: (817) 332-1377

Operator address: 815 West 10th St., Ft. Worth TX 76102 Contact for Application: Brian Wood (Permits West, Inc.)

Phone: (505) 466-8120

III. A. (1) Lease: BLM NMLC-063645

Lease Size: 800 acres (see Exhibit A for maps and C-102)

Closest Lease Line: 480'

Lease Area: E2 of Section 13, T. 18 S., R. 33 E. et al

Unit Number: 300120 Unit Size: 2,895.36 acres Closest Unit Line: 4575'

Unit Area:

T. 18 S., R. 33 E.

Sections 13 & 14: all

Section 23: N2 & N2SE4

Section 24: N2, N2SW4, SESW, & SE4

T. 18 S., R. 34 E.

Section 18: NWNW, S2NW4, SW4, & W2SE4 Section 19: NW4, N2SW4, & SWSW



SEELY OIL CO. E-K QUEEN UNIT 111 1650' FSL & 2160' FEL SEC. 13, T. 18 S., R. 33 E. LEA COUNTY, NM

30-025-36368

A. (2) Surface casing (8.625", 24#, J-55) was set at 1770' in an 11" hole with 480 sacks. Circulated to GL.

Production casing (5.5", 15.5#, J-55) was set at 4486' in a 7.875" hole and cemented with 700 sacks to 1690' (calculated).

Mechanical integrity of the casing will be assured by hydraulically pressure testing to a minimum of 500 psi for 30 minutes or to 300 psi for 60 minutes.

- A. (3) Tubing will be 2.375" IPC. Setting depth will be ≈ 4300 '. (Injection interval will be 4360' to 4367'.)
- A. (4) A plastic lined AD-I packer will be set at \approx 4300', or no more than 100' above the highest perforation (4360').
- B. (1) Injection zone will be the Queen sandstone, part of the E-K; Yates Seven Rivers Queen Pool. Reservoir is a stratigraphic trap. Average porosity = 13.3%. Average permeability = 30 mD. Average fracture gradient = 0.94 psi/foot. Water saturation was estimated as 40% before the waterflood started.
- B. (2) Injection interval will be 4360' to 4367'. The well is a cased hole.
- B. (3) Well was drilled and completed in 2003 as a 4487' deep Queen oil well and plugged back to 4409'.
- B. (4) Well was perforated in 2003 from 4360' to 4367' with fifteen 0.4" shots. This same interval will be used for injection.
- B. (5) Next higher oil or gas zone in the area of review is the Seven Rivers. Its bottom is at 4325'. Highest Queen perforation will be 4360'. (A typo is in the Completion Report. Queen top is at 4326' RKB.)



SEC. 13, T. 18 S., R. 33 E.

LEA COUNTY, NM

PAGE 3

30-025-36368

Next lower oil or gas zone in the area of review is the Delaware. Delaware top is at ≈ 5300 '. Deepest perforation will be 4367'.

- IV. This is not a horizontal or vertical expansion of an existing injection project (R-2913 and R-2914). There have been 2 subsequent water flood expansions. The vertical contraction (R-2913-A) of the Unit excluded the Penrose.
- V. Exhibit B shows 15 existing wells (2 water injection wells + 3 oil wells + 10 P&A wells) within a half-mile radius, regardless of depth. Exhibit C shows 245 existing wells (103 P & A wells + 101 oil or gas wells + 18 injection or disposal wells + 23 water wells) within a two-mile radius.

Exhibits D and E shows and details all leases (BLM, State, and fee) within a half-mile (D) radius and two-mile (E) radius.

- VI. Fifteen wells are within a half-mile radius. All fifteen wells penetrated the Queen. A table abstracting the well construction details and histories of the penetrators is in Exhibit F. Diagrams of the P&A penetrators are in Exhibit G, sequenced by API number.
- VII. 1. Average injection rate will be ≈100 bwpd. Maximum injection rate will be 150 bwpd.
 - 2. System will be closed. Well will tie into the Unit pipeline system.
 - 3. Average injection pressure will be ≈ 800 psi. Maximum injection pressure will be 872 psi (= 0.2 psi/foot x 4360' (top perforation)).
 - 4. Water source will be produced water from Seely wells. No compatibility problems have reported from the >4,955,122 barrels that have been injected in the Unit to date.
 - 5. The Queen currently produces from seven oil wells in the Unit, three of which are within a half-mile. Project goal is to recover more oil.



SEELY OIL CO. E-K QUEEN UNIT 111 1650' FSL & 2160' FEL SEC. 13, T. 18 S., R. 33 E. LEA COUNTY, NM

30-025-36368

VIII. The Queen in the Unit is a sandstone stratigraphic trap with an average porosity of 13.3%. Average permeability is 30 millidarcies. There are currently 450 Queen injection wells in the state. The E-K Queen Unit shares its northeast border with Seely's Central EK Unit which has a similar water flood.

Formation depths are:

Quaternary = 0' Rustler = 1695' Top Salt = 1895' Base Salt = 2964' Yates = 3170' Seven Rivers = 3576' Queen = 4326' Total Depth = 4487'

State Engineer (Exhibit H) records indicate ten water wells are within a mile. None could be definitively found during a June 14, 2018 field inspection. Two sources were sampled (Exhibit H) on that day. A windmill, 0.98 mile NNE, appears to be L 06347, 02878, or 13406. A second sample point was 2.4 miles NNW.

Deepest water well within a mile (1610 meter) radius is 220'. No existing underground drinking water source is below the injection interval within a mile radius. The well is 0.7 mile southwest of the Ogallala aquifer. Most of the ten wells plot outside the Ogallala boundary. Both sampled wells are inside the Ogallala.

There will be 2631' of vertical separation and 1269' of salt and anhydrite between the bottom of the only likely underground fresh water source (red beds) and the top of the Queen.

Produced water is currently being injected (9 wells) or disposed (2 wells) into the Bone Spring, Delaware, Penrose, or Queen in T. 18 S., R. 33 E.

- IX. The well will be stimulated with gelled KCL and sand.
- X. DLL Micro Guard and Spectral Density Dual Spaced Neutron logs are on file with NMOCD.



SEELY OIL CO. E-K QUEEN UNIT 111 1650' FSL & 2160' FEL SEC. 13, T. 18 S., R. 33 E. LEA COUNTY, NM

30-025-36368

- XI. One active fresh water well is within a mile. Analyses from that windmill (0.98 mile NNE) and a stock tank (2.4 miles NNW) are attached (Exhibit H).
- XII. Seely Oil Co. is not aware of any geologic or engineering data that may indicate the injection interval is in hydrologic connection with any underground source of water (Exhibit I). There are 450 Queen injectors and 25 SWD wells in New Mexico. Previously approved water flood expansions in the Unit include WFX-474 and WFX-807.
- XIII. A legal ad (see Exhibit J) was published on August 1, 2018. Notice (this application) has been sent (Exhibit K) to the surface owner (BLM), government lessors (BLM, NMSLO), offset Queen operators (only Seely), other zone operators (only COG & Devon), lessees of record (ConocoPhillips, PXP, Seely, ZPZ), and operating rights holders (Apache Corp., Bellwether Exploration, Black Shale Minerals, Boswell Interests, P D Boswell Trust, Burnett Oil, CEB Oil, Lynn Charuk, Mitchel Cheney, Chisos Ltd., COG Operating, Concho Oil & Gas, Amy Dahlin Trust, Merlyn Dahlin, Ruth Dahlin, Devon Energy, EAB Oil, Express Air Drilling, Kathleen & Michael Havel, Dawn & David Henderson, Hill Houston Trust, Hunt Cimarron Trust, Woody Hunt, John P Oil Co., Merlyn Kahlin, Magnum Hunter, Manix Energy, Marbob, Mobil Producing TX & NM, J C Pace Oil & Gas, Petrohawk, PVB Oil, PXP Gulf Coast, Ridge Runner, Santa Fe Exploration, Santa Fe Snyder, C. W. Seely, Ina Seely, SSV & H Associates, Thompson & Thompson, Trigg Oil & Gas, Wes-Tex Drilling, Wright Family Trust).



DISTRICT I. 1625 N. Prench Dr., Hobbs, NH 86240

DISTRICT II

State of New Mexico

Energy, Minerals and Netural Resources Department

EXHIBIT A

Form C-102 Revised Merch 17, 1999

Submit to Appropriate District Office

State Lease - 4 Copies Fee Lease - 3 Copies

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

511 South First, Artesia, NM 88210

DISTRICT IV 2040 South Pacheco, Santa Fe, NM 87505

OIL CONSERVATION DIVISION

2040 South Pacheco Santa Fe, New Mexico 87504-2088

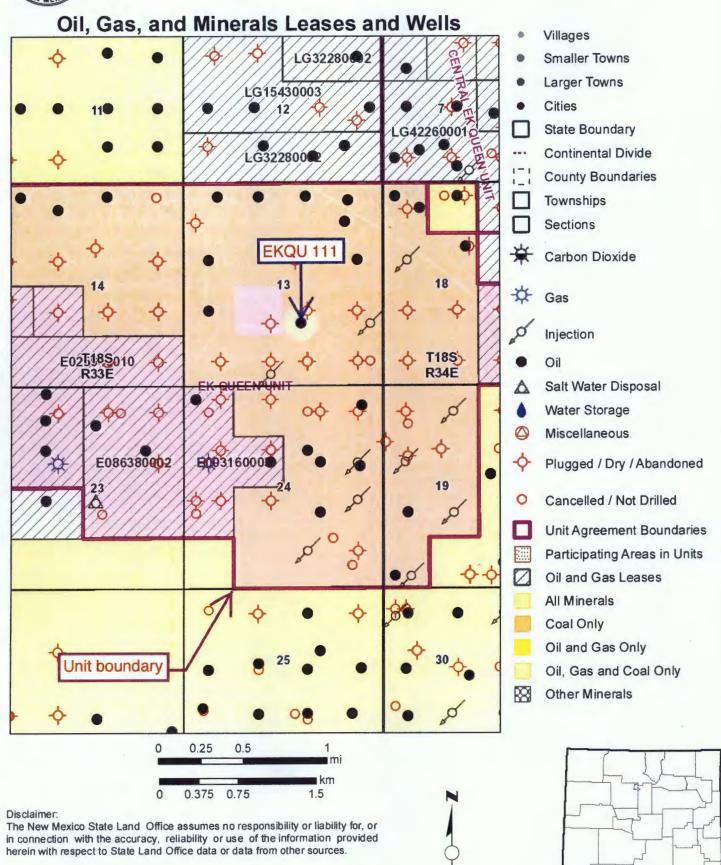
☐ AMENDED REPORT

		1	WELL LO	CATION	AND ACREA	AGE DEDICATI	ON PLAT		
	Number 5-34	6368		1995	0	E-K Yates	Pool Name , 7 Rivers,	Queen	
Property 224	34			E	Property Nam K QUEEN	UNIT		Well No	1
2049	7			SE	Operator Nau ELY OIL CO			395	
	,				Surface Loc	ation			
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	Bast/West line	County
J	13	18 S	33 E		1650'	SOUTH	2160'	EAST	LEA
			Bottom	Hole Loc	ation If Diffe	erent From Sur	face		
UL or let No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Pedicated Acre		TLL BE AS		го тніз		ONTIL ALL INTER		EEN CONSOLIDA	ATED
	1				1		I hereb	OR CERTIFICAT y certify the the in n is true and completeles and bettef.	formation

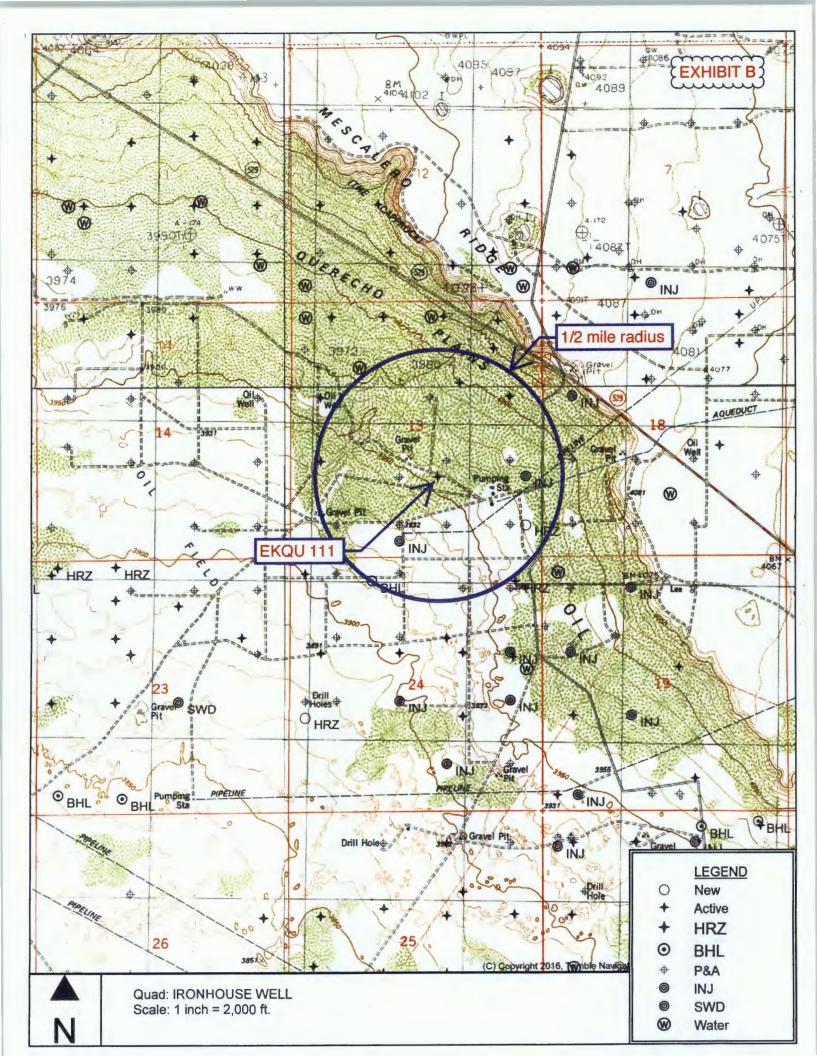
Signature George R. Smith, agent for Printed Name Seely Oil Co. June 26, 2003 Date SURVEYOR CERTIFICATION ***** I hereby certify that the well location shown Lat.: N32"44'41.96" on this plat was plotted from field notes of Long.: W103'36'54.1' actual surveys made by me or under my supervison, and that the same is true and correct to the best of my belief. ~ 3969.4° 3965.4'r 2160 JUNE .,10 2003 Date Supered L. ION 3948 Signa 7977 JLP BASIN SURVEYS

New Mexico State Land Office



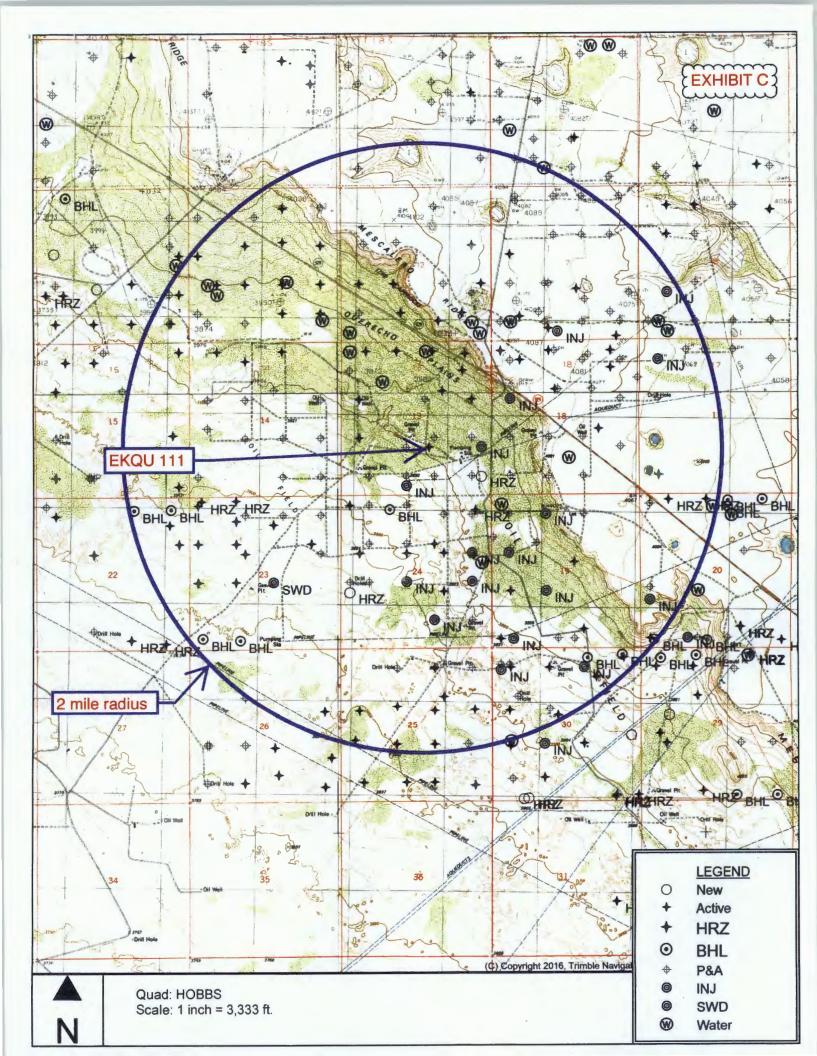


Data pertaining to New Mexico State Trust Lands are provisional and subject to revision, and do not constitute an official record of title. Official records may be reviewed at the New Mexico State Land Office in Santa Fe, New Mexico.



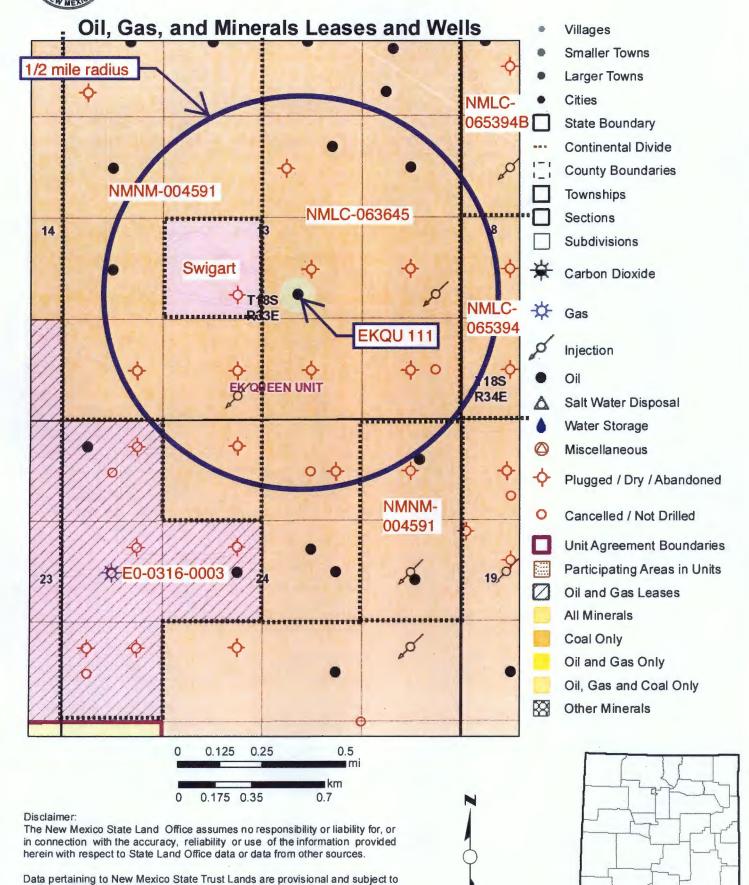
SORTED BY DISTANCE FROM EKQU 111

						T	
API	WHO	UNIT- SECTION- T18S-R33E	TVD	WELL	STATUS	ZONE	FEET FROM EKQU 111
3002501602	Mobil	J-13	4408	EKQU 002	P&A	Queen	370
3002501605	Mobil	K-13	4615	EKQU 001	P&A	Queen	789
3002501603	Mobil	0-13	4378	EKQU 005	P&A	Queen	1006
3002501607	Mobil	N-13	4361	EKQU 003	P&A	Queen	1270
3002537587	Seely	N-13	4462	EKQU 619	WIW	Queen	1467
3002501604	Seely	I-13	4405	EKQU 006	P&A	Queen	1533
3002501606	T J Sivley	G-13	4369	Sivley 13 Federal 005	P&A	Queen	1656
3002501601	Mobil	P-13	4405	Carper Sivley 001	P&A	Queen	1792
3002535000	Seely	I-13	4700	EKQU 010	WIW	Queen	1828
3002529604	Seely	G-13	9300	EKQU 210	0	Queen	1982
3002501642	Mobil	C-24	4374	EKQU 002	P&A	Queen	2137
3002534325	Seely	H-13	4704	EKQU 029	0	Queen	2231
3002501608	Mobil	M-13	4355	EKQU 6 004	P&A	Queen	2340
3002501633	Mobil	B-24	4619	EKQU 1 004	P&A	Queen	2364
3002501609	Seely	L-13	4340	EKQU 613	0	Queen	2468
3002539741	Devon	A-24	5411	NM 24 Federal Com 003H	0	Delaware	2650



Alimost Donto in America Donion	1		Lanca of Doggad	Well
Aliquot Parts in Area of Review	Lessor	Lease	Lessee of Record	Operator(s)
SWNW 18-18s-34e	BLM	NMLC-065394B	PXP	Seely
W2SW4 18-18s-34e	BLM	NMLC-065394	ConocoPhillips	Seely
E2 13-18s-33e	BLM	NMLC-063645	Seely	Seely
NESW	fee	Swigart	Seely	Seely
E2NW4, SWNW, NWSW, & S2SW4 13-18s-33e	BLM	NMNM-004591	Seely	Seely
NENE & NENW 24-18s-33e	BLM	NMNM-004591	Seely	Seely & Devon
NWNE 24-18s-33e	BLM	NMLC-063645	Seely	Seely & Devon
NWNW 24-18s-33e	NMSLO	E0-0316-0003	ZPZ	COG



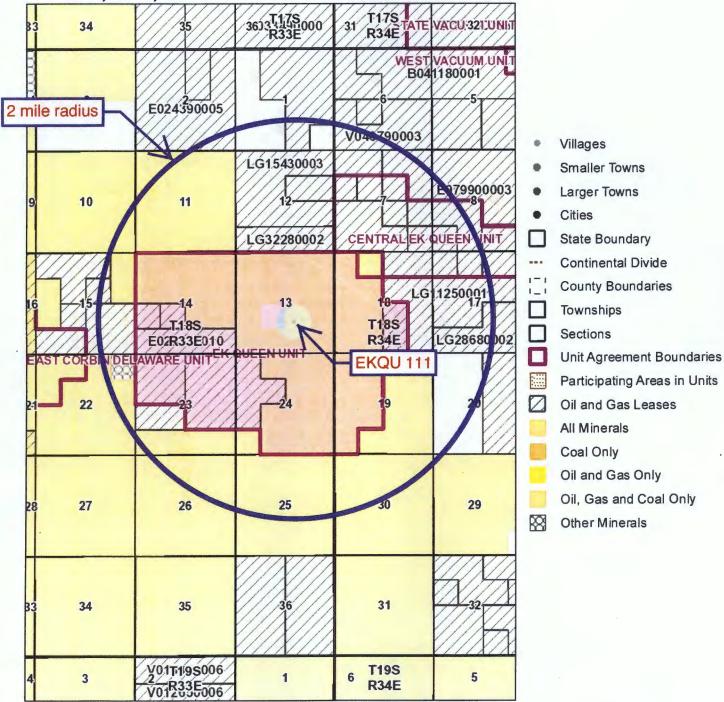


revision, and do not constitute an official record of title. Official records may be reviewed at the New Mexico State Land Office in Santa Fe, New Mexico.









Disclaimer:

The New Mexico State Land Office assumes no responsibility or liability for, or in connection with the accuracy, reliability or use of the information provided herein with respect to State Land Office data or data from other sources.

0.5

0.75

1

1.5

2

■ km

3

Data pertaining to New Mexico State Trust Lands are provisional and subject to revision, and do not constitute an official record of title. Official records may be reviewed at the New Mexico State Land Office in Santa Fe, New Mexico.



Sorted by distance from EKQU 111

	SPUD	TVD	ZONE	WELL STATUS	HOLE O. D.	CASING O. D.	SET @ FEET	CEMENT	TOC	HOW TOC DETERMINED
_										
_	7/12/55	4408	Queen	P&A	11	8.625	297	250 sx	ਰ	circ.
					7.875	5.5	4408	525 sx	932	calc.
	5/1/55	4615	Queen	P&A	12.25	9.625	259	200 sx	ਰ	circ.
-					7.875	5.5	4444	175 sx	3500	calc.
\vdash	11/18/55	4378	Queen	P&A	10.25	8.625	292	175 sx	ਰ	circ.
					7.875	5.5	4378	550	1950	calc.
O-13-18s-33e										
\vdash	12/6/55	4361	Queen	P&A	no report	13.375	250	250	GL	circ.
					no report	8.625	1638	20	1532	calc.
N-13-18s-33e					7.875	5.5	4332	175 sx	3150	calc.
	1/18/06	4462	Queen	WIW	12.25	8.625	1635	510 sx	GL	circ. 95 sx
					7.875	5.5	4461	800 sx	GL	circ. 95 sx
N-13-18s-33e										
	5/11/56	4405	Queen	P&A	12.25	8.625	301	200 sx	GL	circ.
3002501604					no report	A/N	N/A	N/A	N/A	N/A
I-13-18s-33e										
	11/25/57	4369	Queen	P&A	12.25	8.625	332	175 sx	GL	circ.
3002501606					no report	N/A	N/A	N/A	N/A	N/A
G-13-18s-33e										

Sorted by distance from EKQU 111

								 						 			 _	_		 			\neg
HOW TOC DETERMINED	circ.	CET log			circ. 160 sx	CBL		circ. 105 sx	circ. 100 sx	temp. surv.	circ.	N/A	calc.	no report	no report		circ.	calc.	CBL	circ.	calc.		
T0C	GL .	3340			GL	920		GL	GL	200	GL	N/A	2445	GL	750		GL	1512	2918	G.	3985		
CEMENT	50 sx	125 sx		,	585 sx	800 sx		375 sx	900 sx	1450 sx	200 sx	mud	250 sx	505 sx	795 sx		250 sx	50 sx	250 sx	175 sx	550 sx		
SET @ FEET	1649	4375			1715	4700		363	3241	0086	250	1631	4349	1764	4703		250	1618	4334	293	4618		
CASING O. D.	8.625	7			8.625	5.5		13.375	8.625	5.5	13.375	8.625	5.5	8.625	5.5		13.375	8.625	5.5	8.625	5.5		
ноге о. р.	no report	no report			11	7.875		17.5	12.25	7.875	no report	no report	no report	11	7.875		no report	no report	7.875	no report	no report		
WELL STATUS	P&A				MIM			Oil			P&A			Oil			P&A			P&A			
ZONE	Queen				Queen			Queen			Queen			Queen			Queen			Queen			
DVT	4405				4700			9300			4374			4704			4355			4619			
SPUD	10/4/54				4/16/00			10/26/85			10/22/55			3/21/98			1/13/56			8/11/55			
WELL	Carper Sivley 1	3002501601	P-13-18s-33e		EKQU 010	3002535000	I-13-18s-33e	EKQU 210	3002529604	G-13-18s-33e	EKQU 002	3002501642	C-24-18s-33e	EKQU 029	3002534325	Н-13-18s-33е	EKQU 6 004	3002501608	M-13-18s-33e	EKQU 1 004	3002501633	B-24-18s-33e	

Sorted by distance from EKQU 111

WELL	SPUD	TVD	ZONE	WELL STATUS	HOLE O. D.	CASING SET @ O. D. FEET	SET @ FEET	CEMENT	TOC	HOW TOC DETERMINED
EKQU 613	2/6/2	4340	Queen	lio	11.25	8.625	1617	50 sx	GL	circ.
3002501609					7.875	5.5	4282	200 sx	3140	CBL
L-13-18s-33e					no report	4.5	4340	20 sx	4266	TOL
-					-					
NM 24 Federal	01/11/11	EA11	our, and	lio	17 E	13 375	1770	1100 cv	15	circ 245 cv
Com 003H	01/11/11	7411	Delawale	5	۲٬۰۲	13.373	7//7	VC 00TT	3	CI C: 2-10 3A
3002539741					12.25	9.625	3135	540 sx	GL	circ. 296 sx
A 10, 230					9 75	ט	8279	140 cv	1280	B
A-24-105-95E					6.7.5	ر.ر	MD	110 SA	1500	COL

30-025-01601 spud 10-4-54 P&A 12-22-83



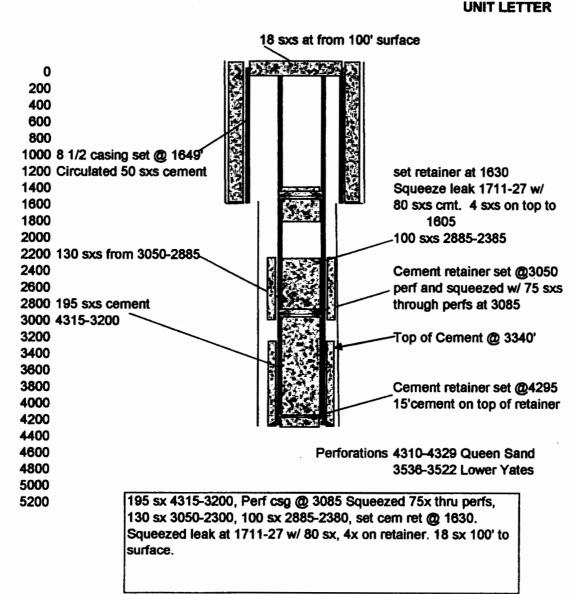
OPERATOR Seely Oil Company WELL NO. 1

LOC

LEASE Carper Sivley Federal 660 FSL & 660 FEL SECTIO

SECTION 1

13-185-338



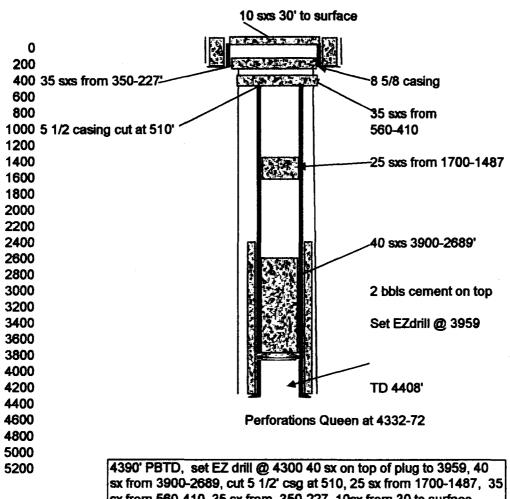
30-025-01602 spud 7-12-55 P&A 5-4-77



OPERATOR Seely Oil Company WELL NO.

LEASE **EK Queen** LOC 1980 FSL & 1980 FEL

SECTION 13-18S-33E **UNIT LETTER**



sx from 560-410, 35 sx from, 350-227, 10sx from 30 to surface 5/3/1977

30-025-01603 spud 11-18-55 P&A 2-3-81

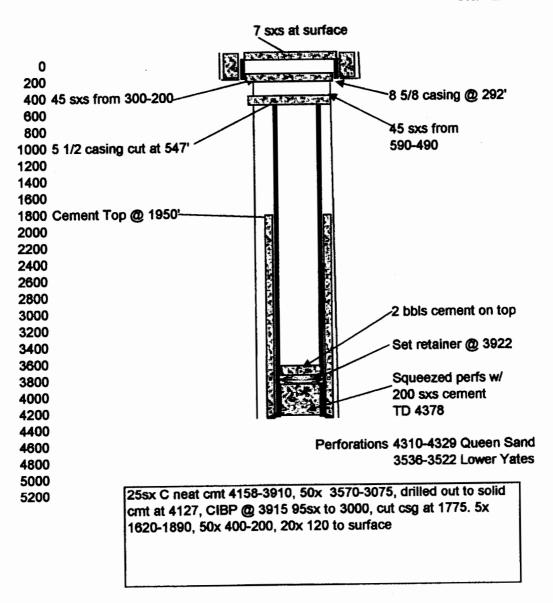


OPERATOR Seely Oil Company WELL NO. tr1 no.5

LEASE E-K Queen Unit LOC

SECTION 13-18S-33E 660 FSL & 1980 FEL

UNIT LETTER 0



30-025-01604 spud 5-11-56 P&A 5-21-56



OPERATOR WELL NO.

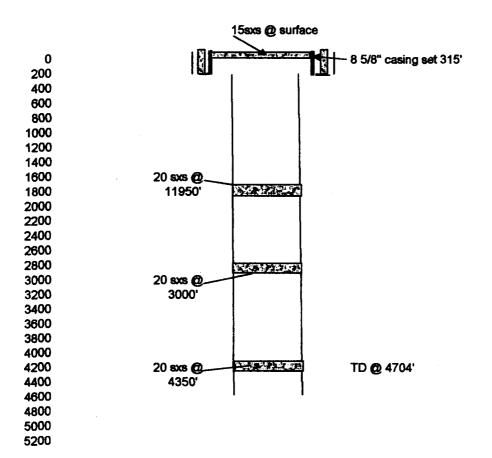
Seely Oil Company 6

LOC 1980'

LEASE EK Queen Unit 1980' FSL & 660 FEL

SECTION 13-18S-33E

UNIT LETTE



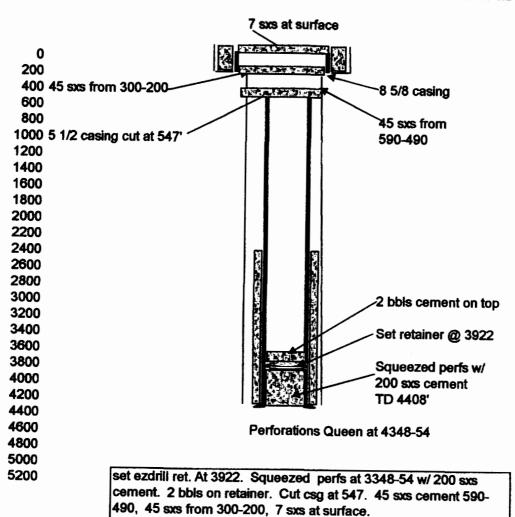
20 sx cement @ 4350', 20 sx cement @ 3000', 20sx cement @ 1950, 15 sx at surface.



OPERATOR Seely Oil Company WELL NO. Tract 12-1

LEASE EK Queen LOC 1610 FSL & 2310 FWL

SECTION 13-18S-33E UNIT LETTER K



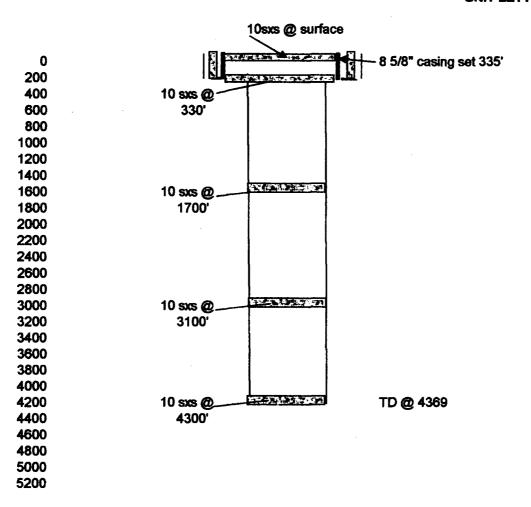
30-025-01606 spud 11-25-57 P&A 12-12-57



OPERATOR T.J. Silvey Federal **WELL NO.** 5

LEASE EK Queen Unit LOC 1980' FNL & 2310' FWL

SECTION 13-18S-33E UNIT LETTER G



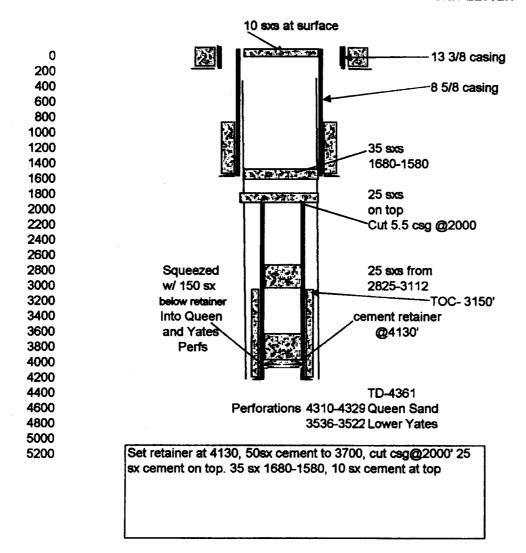
10 sacks each at 4300',3100',1700',330' and at surface

30-025-01607 spud 12-6-55 P&A 11-8-71



OPERATOR Seely Oil Company WELL NO. tr6 no.3

LEASE E-K Queen Unit
LOC 660 FSL & 2310 FWL SECTION 13-18S-33E
UNIT LETTER N



30-025-01608 spud 1-13-56 P&A 2-17-81



OPERATOR Seely Oil Company

WELL NO. tr6 no.4

LEASE

LOC

660 FSL & 990 FWL

SECTION 13-18S-33E UNIT LETTER M

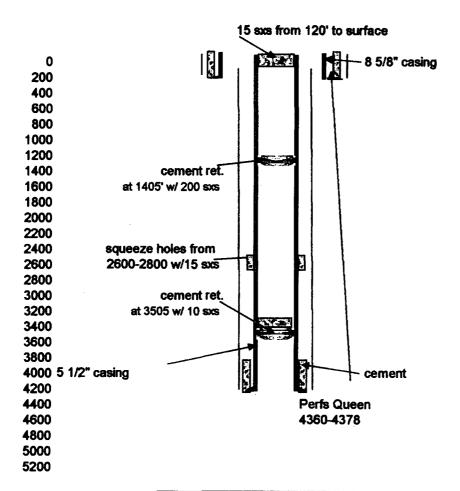
125 sxs from 350 to surface 0 45 sxs from 200-300 13 3/8 casing 200 400 50 sxs at 635 8 5/8 casing 600 cut at 572 800 1000 5 1/2 casing cut at 547' 1200 1400 1600 100 sxs. From 1800 on top of CIBP 2000 2200 Top of Cemen CIBP @ 1616 2400 2918' 2600 2800 Squeezed 25 sxs from w/ 150 sx 3000 2825-3112 3200 below retainer 3400 Into Queen cement retainer 3600 and Yates @3315' 3800 Perfs 4000 4200 4400 4600 Perforations 4325-55 **Queen Sand** 4800 3527-37 **Lower Yates** 5000 Set retainer at 3315 Squeezed Yates perfs at 3527-37 and 5200 Queen at 4325-55 w/ 150 sx. 50sx @ 2825-3112, 50sx from 1500-1712', CIBP@1616 w 50 sx cement on top, 50 sx @ 635, 100sx@350, 25sx @ 30' to surface



OPERATOR Mobil Producing Co. WELL NO. 14

LEASE EK Queen Unit LOC 660 FNL & 1650 FEL

SECTION 24-18S-33E UNIT LETTER B



Cmt Ret @ 3505 w/ 10 sxs on top, 15 sxs 2600-2800, cmt ret @ 1405 w/ 200 sxs, 15 sxs 120 to surface

Perforations Queen- 4360-4378

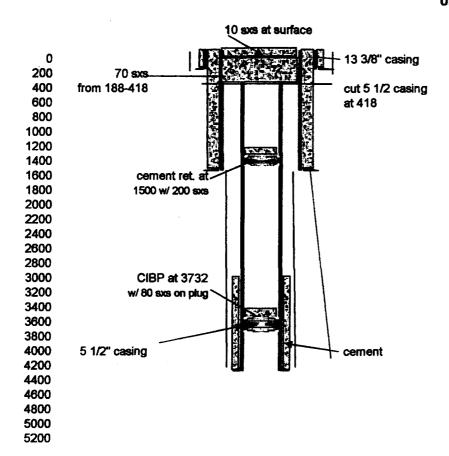
30-025-01642 spud 10-22-55 P&A 11-10-77

EXHIBIT G

OPERATOR Mobil Producing Co. WELL NO. 62

LEASE EK Queen Unit LOC 330 FNL & 2310 FWL

SECTION 24-18S-33E UNIT LETTER c



CIBP @ 3732 w/ 80 sxs on plug. Cmt retainer @ 1500 squeezed w/200 sxs. Cut 5 1/2 @ 418 70 sxs 188 - 418 10 sxs @ surface



New Mexico Office of the State Engineer EXHIBIT H

Water Column/Average Depth to Water

(A CLW#### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is

closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

	,	POD		`	•									
		Sub-			QQ		_	_		***	D1 . D	41 337 1175		ater
POD Number CP 00623 POD2	Code	basin CP	County LE		16 4 2 1		18S	Rng 33E	X 629243	Y 3624542	DistanceDe 850	epthWellDep 100	tn water Co	umn
L 07429		L	LE	1	1 1	19	185	34E	630523	3623272*	970	149	105	44
CP 00769 POD1		СР	LE	ı	1 2	13	188	33E	629699	3624866*	1006	115	70	45
CP 00623 POD1		СР	LE	1	1 1	13	188	33E	628895	3624852*	1310	82	60	22
L 13406 POD1		L	LE	4	4 4	12	18S	33E	630279	3625061	1310	220		
CP 00691		CP	LE	4	4 2	24	18S	33E	630327	3622662*	1329	215	195	20
L 02878 POD2		L	LE		4 4	12	18S	33E	630196	3625175	1386	220	220	. 0
L 06347		L	LE		4 4	12	188	33E	630196	3625175*	1386	170	130	40
L 08288		L	LE	3	3 3	12	185	33E	628890	3625054*	1471	79	60	19
<u>L 03436</u>		L	LE		1 4	18	18S	34E	631230	3623771 🍑	1480	170	125	45
L 02898	1 mile =	L	LE		3 3	07	18S	34E	630598	3625182*	1568	204	150	54
CP 00072 POD6	1610 m	СР	LE	2	4 4	- 11	18S	33E	628603	3625179	1749	100	61	39
<u>CP 00072 POD1</u>		CP	LE	2	3 4	- 11	185	33E	628284	3625242*	2015	85		
CP 00072 POD2		CP	LE		4	- 11	188	33E	628386	3625344	2016	90		
CP 00072 POD5		CP	LE	2	1 4	- 11	188	33E	628219	3625573	2298	100	64	36
<u>L 10040</u>		L	LE		3 3	08	18S	34E	632170	3625205*	2766	215	145	70
CP 00701 POD2		CP	LE	4	1 3	11	18S	33E	627472	3625433*	2769	100		
L 04953		L	LE	4	3 3	08	188	34E	632269	3625104*	2807	200	150	50
CP 00701		CP	LE		1 3	11	18S	33E	627373	3625534*	2908	100		
CP 00072 POD3		CP	LE	2	4 4	10	18S	33E	627076	3625223*	3002	70	•	
L 13526 POD1		L	LE	2	2 1	20	18S	34E	632769	3623271	3074	196	106	90
L 10346		L	LE		3	20	18S	34E	632425	3622187*	3153	130		
<u>L 10436</u>		L	LE		3	20	188	34E	632425	3622187*	3153	120	80	40
L 04898		L	LE		4 3	06	18S	34E	630937	3626796*	3165	185	150	35
CP 01584 POD1		CP	LE	2	1 3	30	188	34E	630654	3620788 🛶	3202	500		

Average Depth to Water:

116 feet

Minimum Depth:

60 feet

Maximum Depth:

220 feet

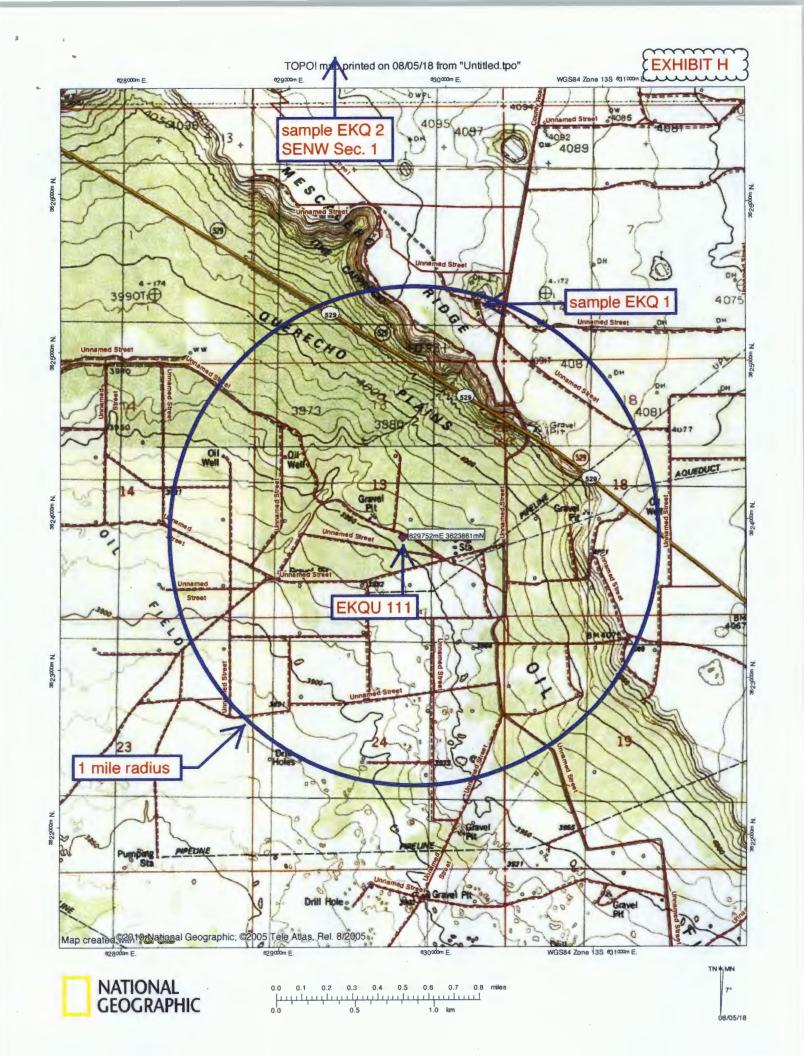
Record Count: 25

UTMNAD83 Radius Search (in meters):

Easting (X): 629752

Northing (Y): 3623861

Radius: 3220





Lab Order 1806979

Date Reported: 7/5/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Permits West

Client Sample ID: Selly-EkQ-1

Project: Seely Ek Queen H2O Wells

Collection Date: 6/14/2018 2:30:00 PM

Lab ID: 1806979-001

Matrix: AQUEOUS Received Date: 6/15/2018 8:36:00 AM

Analyses	Result	PQL Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 1664B					Analyst	dbf
N-Hexane Extractable Material	ND	9.60	mg/L	1	6/18/2018 4:00:00 PM	38719
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	64	5.0	mg/L	10	6/28/2018 4:49:30 PM	R52361
SM2540C MOD: TOTAL DISSOLVED SOLIDS					Analyst	KS
Total Dissolved Solids	295	20.0	mg/L	1	6/21/2018 5:03:00 PM	38785

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 5
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified



Analytical Report Lab Order 1806979

Date Reported: 7/5/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Permits West

Client Sample ID: Selly-EkQ-2

Project: Seely Ek Queen H2O Wells

Collection Date: 6/14/2018 2:50:00 PM

Lab ID:

1806979-002

Matrix: AQUEOUS

Received Date: 6/15/2018 8:36:00 AM

Analyses	Result	PQL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 1664B					Analys	t: dbf
N-Hexane Extractable Material	ND	9.58	mg/L	1	6/18/2018 4:00:00 PM	38719
EPA METHOD 300.0: ANIONS					Analys	t: MRA
Chloride	120	5.0	mg/L	10	6/28/2018 6:06:40 PM	R52361
SM2540C MOD: TOTAL DISSOLVED SOLIDS					Analys	t: KS
Total Dissolved Solids	396	20.0	mg/L	1	6/21/2018 5:03:00 PM	38785

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 2 of 5
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

1806979 05-Jul-18

Hall Environmental Analysis Laboratory, Inc.

Client:

Permits West

Project:

Seely Ek Queen H2O Wells

Sample ID MB-38719

SampType: MBLK

TestCode: EPA Method 1664B

Client ID: PBW Batch ID: 38719

RunNo: 52053

Analyte

Prep Date: 6/18/2018 Analysis Date: 6/18/2018

SeqNo: 1702801

Units: mg/L HighLimit

RPDLimit

RPDLimit

Qual

N-Hexane Extractable Material

Sample ID LCS-38719

Result **PQL** ND 10.0

SampType: LCS

TestCode: EPA Method 1664B

Client ID: LCSW

Batch ID: 38719

RunNo: 52053

Prep Date: 6/18/2018

Analysis Date: 6/18/2018

SeqNo: 1702802

Units: mg/L

HighLimit

Analyte

SPK value SPK Ref Val

40.00

%REC 83.5

78

114

Qual

N-Hexane Extractable Material

33.4

10.0

SPK value SPK Ref Val %REC LowLimit

%RPD

%RPD

Qualifiers:

ND

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RLReporting Detection Limit
- Sample container temperature is out of limit as specified

Page 3 of 5

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

05-Jul-18

Client:

Permits West

Project:

Seely Ek Queen H2O Wells

Sample ID MB

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID: PBW Batch ID: R52361

RunNo: 52361

Prep Date:

Analysis Date: 6/28/2018

PQL

SeqNo: 1716012

%REC LowLimit

Units: mg/L HighLimit

RPDLimit

%RPD

%RPD

Qual

Analyte Chloride

ND 0.50

Sample ID LCS-b

SampType: LCS

TestCode: EPA Method 300.0: Anions

90

Client ID: LCSW

Batch ID: **R52361**

0.50

RunNo: 52361

Prep Date:

Analysis Date: 6/28/2018

SeqNo: 1716021

98.9

Units: mg/L

Qual

Analyte Chloride

Result 4.9 SPK value SPK Ref Val

%REC

HighLimit

RPDLimit

Client ID:

Sample ID 1806979-001BMS

SampType: MS

TestCode: EPA Method 300.0: Anions

Selly-EkQ-1

Batch ID: **R52361**

PQL

5.0

RunNo: 52361

Units: mg/L

RPDLimit

Prep Date: Analyte

Result

Result

110

110

Analysis Date: 6/28/2018 SPK value SPK Ref Val

50.00

5.000

SPK value SPK Ref Val

SeqNo: 1716032

LowLimit

85.9

HighLimit %RPD

109

110

Qual

Chloride

Sample ID 1806979-001BMSD

SampType: MSD

TestCode: EPA Method 300.0: Anions

%REC

96.0

Client ID: Selly-EkQ-1 Batch ID: R52361

RunNo: 52361

Units: mg/L

Prep Date:

Analysis Date: 6/28/2018

SeqNo: 1716033

Analyte

SPK value SPK Ref Val

%REC

85.9

LowLimit

HighLimit

%RPD

RPDLimit Qual

Chloride

PQL 5.0

50.00

64.29

64.29

93.8

109

0.989

20

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

Practical Quanitative Limit POL

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank В

Ε Value above quantitation range

J Analyte detected below quantitation limits Page 4 of 5

P Sample pH Not In Range

RL

Reporting Detection Limit Sample container temperature is out of limit as specified

QC SUMMARY REPORT

WO#:

1806979

05-Jul-18

Client:

Permits West

Project:

Seely Ek Queen H2O Wells

Hall Environmental Analysis Laboratory, Inc.

Sample ID MB-38785

SampType: MBLK

TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: **PBW** Batch ID: 38785

RunNo: 52144

Prep Date: 6/20/2018 Analysis Date: 6/21/2018

SeqNo: 1707681

Units: mg/L

ND

PQL SPK value SPK Ref Val %REC LowLimit

HighLimit

RPDLimit

Qual

Total Dissolved Solids

20.0

Sample ID LCS-38785

SampType: LCS

TestCode: SM2540C MOD: Total Dissolved Solids

%RPD

%RPD

Client ID: LCSW

Batch ID: 38785

RunNo: 52144

Prep Date: 6/20/2018

Analysis Date: 6/21/2018

SeqNo: 1707682

Units: mg/L

HighLimit

Analyte

1000

%REC 101

80

Total Dissolved Solids

1010

SPK value SPK Ref Val

120

RPDLimit

20.0

Qual

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank

Sample container temperature is out of limit as specified

- Е Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RLReporting Detection Limit
- Page 5 of 5





Geologic Assessment

Seely Oil Company

E-K Queen #111 SWD

Section 13, Township 18 South, Range 33 East

Lea County, New Mexico

Cory Walk, M.5.

Geologist

Permits West, LLC

June 27, 2018

Con Walk

B.S.

M.S.



General Information

E-K Queen #111 SWD well will be located in the SE 1/4, section 13, T18S, R33E, about 20 miles southwest of Lovington, NM in the Permian Basin. Seely Oil Company has indicated one bed within the Queen formation as the proposed injection zone (4,360'-4,367' below ground surface). This report assesses any potential concerns relating to the connection between the injection zone and known underground potable water sources.

Groundwater Sources

Three principal aquifers are used for potable groundwater in Lea County; these geologic units include the Triassic Santa Rosa formation, Tertiary Ogallala formation, and Quaternary alluvium. Nicholson and Clebsch (1961) state, "Potable ground water is not available below the Permian and Triassic unconformity but, because this boundary is not easily defined, the top of the Rustler anhydrite formation is regarded as the effective lower limit of 'potable' ground water." Around the E-K Queen #111 SWD well, a thick anhydrite unit interpreted to represent the Rustler formation lies at a depth of ~1650 feet bgs.

Faults and Fractures

The Geologic Map of New Mexico (2003) shows the nearest fault to the SWD location is found 45 miles to the northwest (Figure 1). A large accumulation of northwest trending Basin and Range style normal faults lie ~80 miles from the SWD well. This fault zone is interpreted to be a southeastern extension of the Rio Grande Rift zone (Muehlberger et al., 1978) and is the only area in which deeply penetrating faults exist throughout the region.

A structure contour map of the Paleozoic Ellenburger formation shows the E-K Queen #111 SWD well is adjacent to many Precambrian basement faults (Figure 2; Modified from Ruppel et al., 2009). However, Montgomery (1997) shows that these faults remain deep below the surface and do not penetrate the Delaware Mountain group, which includes the Permian Queen formation (Figure 3).

Stratigraphy

Well data in this region is recorded by the New Mexico Oil Conservation Division (OCD). Well logs from the E-K Queen #111 SWD well (API# 30-025-36368) show low permeability (limestone/dolomite/anhydrite) units both above and below the proposed injection zone (Figure 4). The injection zone is characterized by a very high porosity zone. Well data indicates ~2,700 ft of rock separating the top of the Queen Formation from the previously stated lower limit of potable water at the top of the Rustler anhydrite formation. Within the separating ~2,700 feet of strata include several horizons of impermeable formations including the Rustler anhydrite and Salado halite formations.

Concluding Statement

Geologic data evaluated around the E-K Queen #111 SWD well show no potential structural or stratigraphic connection between the Queen Formation injection zone and any subsurface potable water sources.



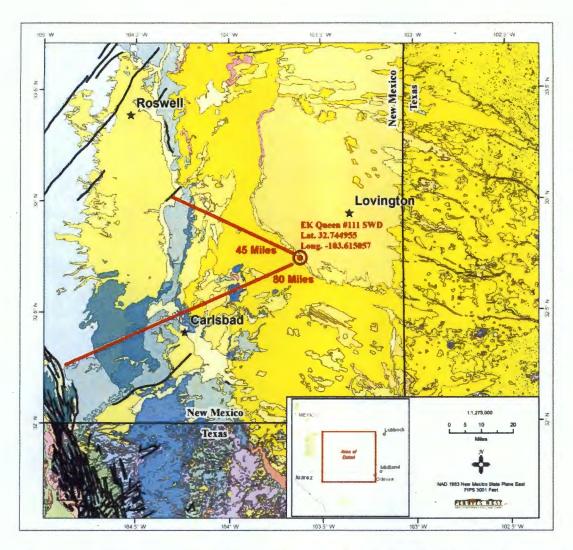


Figure 1. Geologic map of the northwestern Permian Basin. Thick black lines represent locations of fault traces and show that the nearest faults to the proposed E-K Queen #111 SWD well lie >45 miles away.



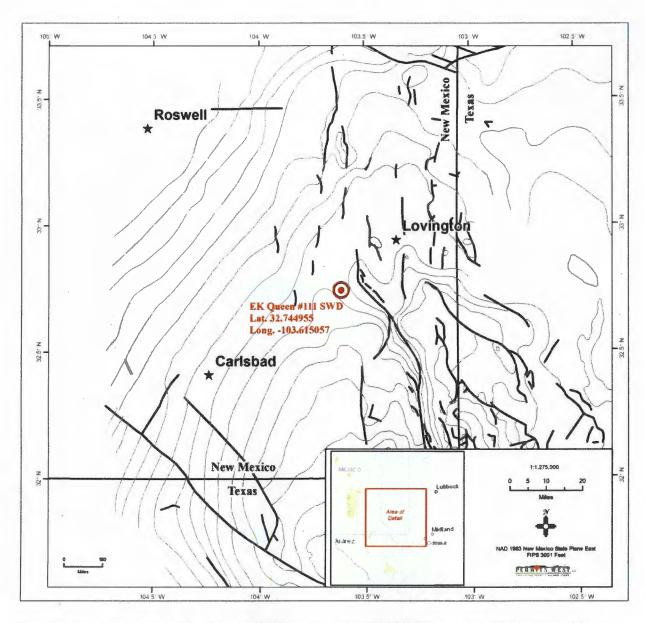


Figure 2 Structural contour map of the Paleozoic Ellenburger formation. Thick black lines represent the locations of deep Precambrian basement faults. Precambrian faults are close to the proposed SWD well location, however, these faults are too deep to allow the injected fluids to travel toward the surface.



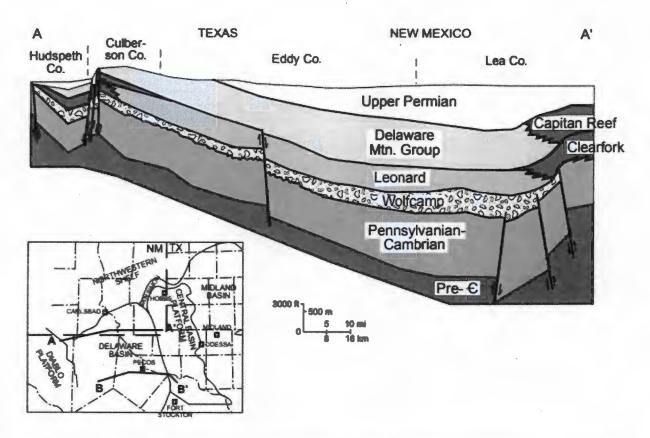


Figure 3. Cross section of the Permian Basin from Montomery (1997). Notice the basement faults only penetrating through the Leonardian and deeper formations and not through the proposed injection zone within the Delaware Mtn. Group.



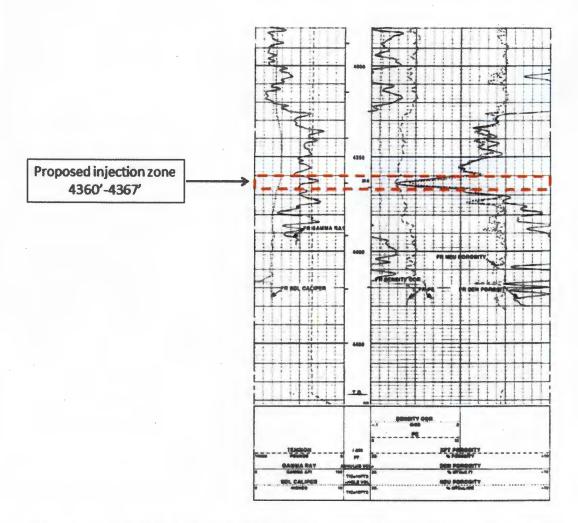


Figure 4. Well log taken from the E-K Queen #111 SWD well illustrating the proposed injection zone in a dashed red line. The injection zone is characterized by an extremely high porosity bed. The injection zone is confined on either side by low porosity beds of limestone, dolomite, anhydrite, etc.



References Cited

- Geologic Map of New Mexico, New Mexico Bureau of Geology and Mineral Resources, 2003, Scale 1:500,000.
- Montgomery, S. L., 1997, Permian Bone Spring Formation: Sandstone play in the Delaware basin: Part I. Slope: AAPG Bulletin, v. 81, p. 1239–1258.
- Muehlberger, W.R., Belcher, R.C., and Goetz, L.K., 1978, Quaternary faulting in Trans-Pecos Texas: Geology, v. 6, p. 337–340.
- Nicholson, A., Jr., and Clebsch, A., Jr., 1961, Geology and ground-water conditions in southern Lea County, New Mexico: New Mexico Bureau of Mines and Mineral Resources, Ground-Water Report 6, 123 pp., 2 plates.
- Ruppel, S.C., 2009, Integrated synthesis of the Permian basin: data and models for recovering existing and undiscovered oil resources from the largest oil-bearing basin: U.S. Oil & Natural Gas Technology, Bureau Economic Geology, The University of Texas at Austin, p. 1-959.

Affidavit of Publication

STATE OF NEW MEXICO COUNTY OF LEA

I, Daniel Russell, Publisher of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, solemnly swear that the clipping attached hereto was published in the regular and entire issue of said newspaper, and not a supplement thereof for a period of 1 issue(s).

> Beginning with the issue dated August 01, 2018 and ending with the issue dated August 01, 2018.

Sworn and subscribed to before me this 1st day of August 2018.

Business Manager

My commission expires

danuary 29, 2019



OFFICIAL SEAL **GUSSIE BLACK** Notary Public State of New Mexico

My Commission Expires 1-29-19

This newspaper is duly qualified to publish actices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937 and payment of fees for said

02108485

BRIAN WOOD PERMITS WEST 37 VERANO LOOP SANTA FE, NM 87508 00215889





August 20, 2018

BLM 620 E. Greene Carlsbad NM 88220

TYPICAL LETTER

Seely Oil Co. is applying (see attached application) to convert its E-K Queen Unit 111 oil well to a water injection well. As required by NM Oil Conservation Division (NMOCD) Rules, I am notifying you of the following proposed water injection well. No action is needed unless you have questions or objections.

Well Name: E-K Queen Unit 111 (BLM lease) TD = 4487'

Proposed Injection Zone: Queen from 4360' to 4367'

Where: 1650' FSL & 2160' FEL Sec. 13, T. 18 S., R. 33 E., Lea County, NM

Approximate Location: 7 air miles southwest of Buckeye, NM

Applicant Name: Seely Oil Co. (817) 332-1377

Applicant's Address: 815 West 10th St., Ft. Worth, TX 76102

<u>Submittal Information:</u> Application for a water injection well will be filed with the NMOCD. If you have an objection, or wish to request a hearing, then it must be filed with the NMOCD within 15 days of receipt of this letter. The New Mexico Oil Conservation Division address is 1220 South St. Francis Dr. Santa Fe, NM 87505. Their phone number is (505) 476-3440.

Please call me if you have any questions.

Sincerely,

Brian Wood







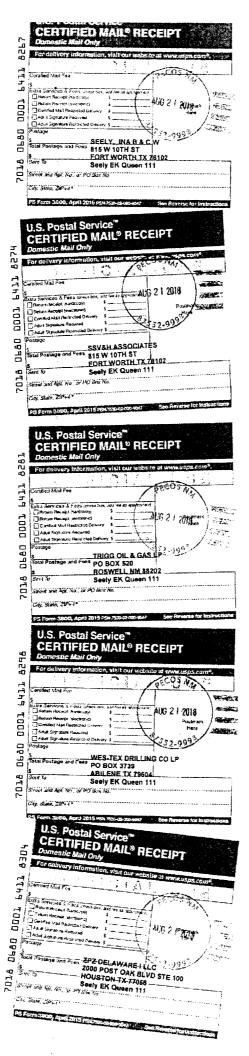


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C. Date

AMcMillan, Michael, EMNRD

From: McMillan, Michael, EMNRD

Sent: Monday, September 24, 2018 8:31 AM

To: 'Brian Wood'

Cc: Sanchez, Daniel J., EMNRD; Goetze, Phillip, EMNRD

Subject: Seely Oil Company E-K Queen State Well No. 111 WFX Administrative Application

Brian:

The Seely Oil Company E-K Queen State Well No. 111 WFX Administrative Application has been suspended, because Seely Oil company is out of 5.9 compliance.

The Seely Oil Company Lea XA State Well No. 4 API 30-025-28790 requires additional bonding.

I have included Daniel Sanchez in this e-mail, for a contact to get the issue resolved.

Once I receive an e-mail from Daniel Sanchez confirming that additional bonding has been received and Seely is in 5.9 compliance, then the application can proceed.

Mike

Michael McMillan 1220 South St. Francis Santa Fe, New Mexico 505-476-3448 Michael.mcmillan@state.nm.us

FORM C-108 Technical Review Summary [Prepared by reviewer and included with application; V16.2]							
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