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THIS WEEK AT A GLANCE:

December 2, 1960  
Vol. 4 - No. 43

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HONDO SELLS CHUNK OF PRODUCTION  
TO PAN AM IN CHALK BLUFF DRAW AREA

A joint announcement issued this week reveals details of a transaction through which Pan American Petroleum Corporation has purchased Hondo Oil and Gas Company's working interest in about 2,000 net acres in the Empire-Abo area of Eddy County.

The purchase includes working interest in three gas wells producing from the Pennsylvanian and five Abo reef oil wells, these in the Chalk Bluff Draw Unit operated by Humble Oil & Refining Company. There are a number of other potential locations on the acreage.

Also included: the Abo rights on two 40-acre tracts two to three miles east of the unit - the State EA and EB Leases, on each of which there is one producing oil well. These two leases are adjacent to several other producing tracts owned jointly by Hondo and Pan Am, and operated by the latter.

The properties are located in Townships 17 and 18 South, Ranges 27 and 28 East, Eddy County. Current production from the seven oil wells is approximately 340 net barrels daily, and from the gas wells about 1500 MCF PD.

The 7500-acre Chalk Bluff Draw Unit, which is operated by Humble, has production from the Empire-Abo and Red Lake-Pennsylvanian Pools. The important Empire-Abo Pool, discovered by Pan American and Hondo (then Malco Refineries, Inc.) late in 1957, has seen rapid development and now is one of the state's major pools. The two companies have continued to be very active in the pool's development. Jointly they own about 100 wells, with a daily average production of about 6,000 barrels.

The two companies also own the Empire-Abo gasoline plant some 13 miles southeast of Artesia, which started gas processing operations in September with an initial compressor capacity of 10 million cubic feet per day, with processing vessels designed for twice that amount.

This week's announcement was made by C. F. Bedford of Fort Worth, vice president and division manager of Pan American, and by Robert O. Anderson and Donald B. Anderson of Roswell, Hondo officials.

Annual Legislative Session? The Vote Is NO

Amendment 2, which would have meant a session of the state legislature each year, was defeated by a vote of 61,340 to 58,405 on November 8. First returns indicated otherwise, but when busy state officials sized up actual returns this week, they discovered that voters didn't want the extra 30-day session. This means the usual single session, starting in 1961 on January 10.

Annual Meeting Gets Good Turn-Out

JOE LEONARD NAMED 1961 PRESIDENT OF INDEPENDENT PRODUCERS AND ROYALTY OWNERS

Joe Leonard of Leonard Oil Company, Roswell, this week was elected president of the Independent Producers and Royalty Owners Association of New Mexico for the coming year. At the same time, three new directors were selected for one-year terms: Raymond Lamb, Artesia, and Dick Hall and Tom Ingram of Roswell.

The Association held its annual meeting Tuesday in Roswell, heard speeches by Walter Famariss, Jr., Hobbs, Famariss Oil & Refining Company; Tom Wiley, state superintendent of public instruction; Bill Hutcheson, president of the new Security National Bank of Roswell, formerly executive vice president of the Midland National; and Will Harrison, New Mexico's leading political commentator and columnist.

As a point of business, the board of directors of the group resolved to do whatever possible to support the position of Phillips and others who are seeking to have the Federal Power Commission abandon dual pricing in the Permian Basin area, according to General Counsel Jack Campbell.

This year's meeting drew a good attendance of about 125, with a 'no-speech' banquet Tuesday night topping it off. U. S. Rep. Tom Morris attended the meeting, as did A. L. Porter, secretary-director of the Oil Conservation Commission.

Will Harrison in a brisk luncheon speech alternated entertainment with straight facts, tossed out a few sharp comments on the recent election. Referring to the lieutenant governor's race, in which Oilman Tom Bolack now has a margin of 288 votes over his Democratic opponent, Joe A. Montoya, Will gave a run-down on the careers of the two Joe Montoyas (one of them now a congressman).

"Now there is hardly anybody in New Mexico who can distinguish between Joe A. Montoya and Joe M. Montoya," he said, "and when voters see them both on the same ballot.....they just vote for both and make sure they voted for the one they like. This made it awfully hard on Tom Bolack. He had to run against two Joe Montoyas but he did scramble through and became the first Republican besides Ed Mechem to be elected to anything in the statehouse since 1930."

Harrison handed out a few compliments to the industry - termed it "the most respected industry in New Mexico," basing this on the fact that "the oil people in New Mexico go their own way and mind their own business" and maintain no oil block in the legislature and no oil lobby at La Fonda.

"The oil industry has had its lurid years in New Mexico like everywhere else," he said, "but you guys must be getting old. The business is tiptoeing along now with the decorum and propriety of a retired madam who has inherited a house next to a Baptist church."

Walter Famariss of Hobbs, who is now the state's only independent refiner, took a world-wide look at the oil economy and pinned it down to its effects on this state. "A great shift in world oil economics is occurring," Famariss said. "The most frightening part of this shift is the entry of Soviet crude oil in the free-world markets at cut price rates and the undoubtedly soon-to-come introduction of Soviet-produced petroleum products into the same markets."

And turning to New Mexico itself, Famariss told the independents: "The unvarnished fact is that your oil is being shoved right out of the market; be it design or happenstance, it is a fact. Your oil occupies no more space in the New Mexico market than finished diamonds do in the Union of South

Africa.....New Mexico is your market, but you sure don't have it.....New Mexico is the only major oil-producing state which has a net import of product - that is, does not produce the products it consumes.

"You surrender in products consumed in New Mexico crude oil markets of 25,500 barrels per day on a net balance basis. Actually forgetting the net balance basis, your loss is many times this: New Mexico surrenders to other states and loses annually an economic value of \$93,170,000 - almost one-tenth of a billion dollars. If this alone were corrected, the prosperity which would fall to our state is unbelievable."

INCIDENTAL INFORMATION: At this writing, there has been no official announcement as to whether court contest of the recent election will be made, as related to the positions of governor and lieutenant governor. It was announced this week that Ed Hartman, who has been state comptroller during previous Mechem administrations, will take the job again. Long interested in the oil business, Hartman has spent the last couple of years in Farmington. ....Governor Burroughs plans to leave Sunday for Phoenix for the Interstate Oil Compact Commission meeting, which of course will be attended by many state officials and others directly connected with the oil industry. Right now it appears that the only hearings held by the Oil Commission during this month will be those already advertised for December 12 and 14. There are as yet no orders in the Escrito de novo case heard a couple of weeks ago (see November 18 report) or in the two Ohio 80-acre cases also heard at the regular November 16 hearing.....Both the Oil Commission and the Land Office are now installed in their new quarters, and this has taken much valiant effort. Moving was quite a big job, but even the Oil Commission's Univac came through with only slight readjustment necessary. This week's examiner hearing was held in the OCC conference room quite comfortably.....One of the busiest men in New Mexico this week: Jack Campbell of Roswell. He helped run the meeting in Roswell Tuesday of the Independent Producers and Royalty Owners Association, then rushed to Santa Fe for an OCC hearing Wednesday, in which he had two important cases (see below). He also spent a lot of time in Santa Fe conferring with other members of the state house of representatives in an effort to wind up as speaker of the house. Speaker last term was Mack Easley of Hobbs, who no doubt hopes to win the position again. Jack has just been re-elected to his fourth straight term in the lower house. Bill Culbertson, San Miguel County rancher who was majority floor leader in 1959, has also been mentioned as a possibility for this job.....Everybody was pretty surprised this week to look up and discover that one of the constitutional amendments which had been presumed passed just didn't quite make it after all (see Page 1). First unofficial returns indicated that voters had locked with favor upon this measure, which would have provided another session of the legislature of 30 days during even-numbered years, and which also would have provided a later starting date for the regular session - a fine idea, because as the date now falls, a new governor is confronted with a meeting of the legislature almost before he has time to take a good look around the office. These past three weeks brought so much controversy about records for the two top state jobs that nobody thought much more about the amendment. However, official records finally brought out the actual truth: the amendment was not approved by the voters. This means no extra session, and also means that the legislature will as usual start its session on the second Tuesday in January.....Next week this publication will try to carry a few highlights from speeches and papers presented by members of the New Mexico delegation to the IOCC meeting in Phoenix.

Case Added to December 12 Docket

A single case (Case 2146) has been added to those already advertised for examiner hearing on December 12 by the Oil Commission (see November 25 report). It is Humble's application for approval of oil-oil dual completion of its D. H. Crockett Well No. 1 in 21-15S-36E (Unit C) and would mean production of oil from both the Caudill-Wolfcamp and Caudill-Devonian Pools.

REPORT OF PROCEEDINGS: NOVEMBER 30 OCC EXAMINER HEARING, SANTA FE

With Chief Engineer Dan Nutter as examiner, the Oil Conservation Commission considered several cases in hearing November 30, with these under consideration:

\* El Paso proposes oil-oil dual (Case 2125). El Paso Natural Gas Company, represented by Attorney Garrett Whitworth and Gerald A. Hickson, proration engineer, proposed oil-oil dual completion of its Lusk Deep Unit No. 1 in 19-19S-32E to obtain oil from undesignated Bone Springs and Pennsylvanian pays through parallel strings of tubing. The well was completed October 5, 1960. The lower pay, the Strawn lime, on a 6'20" test produced 151 barrels of 50.1-gravity oil (GOR 6 days after completion was 2771-to-1). The upper pay, the Bone Springs dolomite, produced 42.2 barrels in 12 hours, gravity 39.1, GOR 1539 after 6 days. Shut-in pressure information: Strawn 3086#, Bone Springs 1330#, this psig at surface.

Hickson cited the good pressure differential and marked difference in gravities as means of determining leakage, if any. El Paso plans to use two packers - a hydraulically set Brown Oil Tool 17-2-C packer set at 8717, above the Bone Springs perforations, and a lower separation packer to be set at 11,134, above the Strawn perforations; this would be a retrievable HS-16-1 packer, Hickson explained.

\* Tidal asks approval of unorthodox location (Case 2126). Tidal Oil Company, represented by Morris B. Jones, Albuquerque consulting engineer, described Tidal Oil Company's need for approval of unorthodox location for its Pictured Cliffs test at a point 1150' FSL and 2040' FWL 21-24N-1W, Rio Arriba County. It wasn't until the second well was drilled that the company discovered that the No. 1 well was not located at the proper surveyor's stake, hence the request. There appeared to be some terrain difficulty which stood in the way of drilling at the surveyed site.

\* Three requests from Sinclair (Cases 2127, 2128, 2129). With Homer Burton as attorney and R. M. Anderson, Midland, senior petroleum engineer, as witness, Sinclair Oil & Gas Company presented reasons for three separate requests: first, it asked permission to commingle production from two separate pools for handling by ACT. Involved are three Devonian completions and four Dean Permo-Pennsylvanian completions, this including three duals. Anderson explained that ownership is common, horizontally and vertically, and that a package unit prefabricated in Sinclair's Tulsa shops will be used. The Pennsylvanian production will go through a p.d. meter, then commingled with the Devonian, which will be determined by subtraction. Wells apparently are now producing at about 3/4 assigned allowable; no price advantage or disadvantage will result from commingling of the gravities. The lease concerned is Sinclair's State Lea 396 in 35-15S-36E.

Next, Sinclair proposed commingling of production from two separate pools underlying its T. D. Pope Lease, W/2 36-14S-37E - Denton-Devonian and Denton-Wolfcamp, present and future wells, and for an ACT system to handle this. Now involved: 8 Devonian wells, 5 Wolfcamp. Anderson said this is more complicated because Kobe pumping equipment is to be installed for the Devonian. In this case, Sinclair plans to meter the Wolfcamp side. Neither zone is now producing top allowable. The lease is fully developed except for three possible Wolfcamp wells. In this case, too, the commingling will bring no price change. A vapor-recovery unit is now being installed.

Third, a final commingling request from Sinclair: this involves not only two separate pools (Denton-Devonian and Denton-Wolfcamp) but also two separate leases in 14S-37E; the Whitman 'A', NE/4 Section 26, and the Whitman 'B', E/2 Section 23. This commingling would be after separate measurement, and the oil also would be handled by a proposed ACT set-up. The 'A' Lease has 4 Devonian wells, 2 Wolfcamp, and the 'B' has 2 Devonian, 1 Wolfcamp, all wells pumping. Here again Kobe equipment will be used on the Devonian. Here again, no price change.

\* San Juan Basin operators need force pooling (Case 2130). With a single hold-out, one Sam Carson of Farmington, Redfern and Herd, Inc., Midland, need a force pooling order to permit operation of a unit consisting of W/2 29-29N-11W in the new Basin-Dakota Pool. John Redfern, president of the company, said that from all indications the entire 320 will be productive of gas from the Dakota, and his company hopes to drill a well in the near future. Carson's interest is 1/8 of 1/8 of 40 acres, and Redfern said he believes that Carson's failure to join perhaps results from lack of understanding, inasmuch as denial would actually deny him his fair share of Dakota reserves. The lease can be held only by production.

\* Robinson Brothers ask for new gas pool (Case 2131). Robinson Brothers Oil Producers through Attorney Howard Bratton and Randall Montgomery, Hobbs, independent geologist, asked establishment of a new gas pool for Pennsylvanian production consisting of N/2 22-11S-31E, Lea County. Their proposed rules, with a flexible spacing pattern, are virtually the same as those now existing for the Bagley-Pennsylvanian Gas Pool 10 miles east.

The Robinson well, the only Morrow sand in the area now capable of producing, tested 22,900,000 CAOF (cu. ft. per day), with the pay at about 11,000'. Montgomery said the pay zone is about 30' thick, a white quartzitic, very coarse-grained sand, semi-angular. As to the fluid produced, the sample was very light (about the color of a martini), 57° - what he described as a typical condensate, "almost like machine oil. He termed the sand very porous and permeable, and the reservoir tortuous and meandering, producing from the same sand strike as the Empire, Red Lake and Atoka.

He considered that the operator might get a 6-to-1 on 320, only 3-to-1 on 160. The Robinson well cost about \$215,00 to \$220,000, even though it was entry of an old hole. He advocated a 'wait-and-see' attitude in drilling while further information is developed.

Chester Skrabacz, Midland consulting geologist who sat on the well during completion, described difficulties in completion in order to get encouraging response. Acid and perforating treatment ran around \$30,000, he said (interval 10,865 - 10,915). Even so, it was impossible to attain again the full 22 million cu. ft. PD indicated by DST. It was his conclusion that the formation is so permeable that it takes a lot of the cement, and that the operator was fortunate to get back the amount of production he did.

J. T. Hollis appeared for H. L. Hunt, also an operator in the pool, agreeing in substance with the Robinson witnesses but advocating even wider spacing - 640, if possible.

\* Humble presents two requests (Cases 2132, 2133). Attorney Howard Bratton and Lee Perry, Hobbs, senior petroleum engineer, detailed two requests from Humble Oil & Refining Company: first, for permission to commingle production from several pools underlying the State 'V' Lease in 10-21S-37E. This would affect 10 oil wells, none top allowable, producing from six zones. These would be metered together, with production distributed by well tests, Perry said. Also affected: a dual gas well, with its condensate to be metered. Then production from all 8 prorated pools would be commingled into common tankage.

Involved are one Blinebry oil well, 2 Brunson oil wells, 2 Drinkard oil wells, 3 Hare oil wells, a Tubb oil well, a Wantz-Abo oil well, and the dual Blinebry-Tubb gas well. Total production in October 1960 was 145 BOPD, with a definite trend of declining production. (In fact, Perry said that 2 Hare wells are now off production.) The dual gas well adds 34 BPD of 52-gravity condensate for a real total of 179 BOPD. He described the equipment and measuring procedures, said "Salvage at the existing battery alone will save \$6,000. In addition, with the continued depletion of this lease we would have to add four treaters costing \$16,000 to present facilities to handle the water production."

Humble's second request proposed an ACT system for handling of Gallup production (undesignated pool) from present and future wells on its Navajo 'L' Lease, Sections 25, 26, 35 and 36 in Township 29 North, Range 14 West, San Juan County. Also sought: permission to store production from more than 16 wells in common tankage. Five wells are now completed, a sixth in process of completion, and two more are just about ready to start operations.

The lease is about six miles southwest of Farmington, in line with a proposed extension of the Cha Cha-Gallup Pool. If the extension is approved, the lease will produce about 2500 BOPD and would need 10,000 barrels tankage. With ACT, two 500-barrel tanks will be sufficient.

He described the ACT system - a conventional type similar to others already in use in the Farmington area, with the usual safety devices. He said Four Corners Pipeline has approved the system as purchaser.

\* Nearburg & Ingram need rules for new area (Cases 2134, 2135). Nearburg & Ingram, Roswell operators with Jack Campbell as counsel, presented three witnesses in outlining plans for operation of a new oil pool for Pennsylvanian production - NW/4 35-12S-37E, Lea County. Simultaneous and related applications involved dual completion of their Midhurst No. 1, NW/NW 35-12S-37E, as a dual to produce oil from an undesignated Pennsylvanian pool and from the Southwest Gladiola-Devonian Pool through parallel strings of tubing. Further, they proposed an ACT system to handle the production from two common sources of supply.

Tom Ingram as a geological engineer described the area and characteristics of the two horizons, in which Atoka perforations are 11,119-11,124 and Devonian 12,188-12,198, and he believes that the two zones are separated by impermeable barriers. The operators hope for the same type order as that issued for the Southwest Gladiola-Devonian Pool - 80 acres, with flexible pattern. They consider the two reservoirs relatively co-extensive, plan a dual-completion program.

The Atoka flowed 358 BO in 17 hours, GOR 4000, gravity 52, 3565# bhp on DST. The Devonian gravity is also 52, GOR 650, bhp 4640#. Ingram considers that pressures show excellent permeability, and he believes that the well can drain at least 80 acres. Cost of an Atoka well alone is \$200,000. On 40, he felt it would not be economically feasible. They expect 2 to 4 more wells in the area.

Ralph Gray, Artesia consultant, presented details of the proposed dual completion, utilizing 2 strings of 2-1/16" tubing and a Baker Model D packer; George Williams, Midland, divisional sales engineer for Mid-Continent, described the planned ACT installation, which he said is similar to several already in use in SE New Mexico. Operators do not plan to meter the Devonian separately, would meter the Pennsylvanian and then deduct, thus saving \$500 per installation. It was brought out, however, that any metering system required by the OCC will be used.

Operators hope to produce the dual, obtain as much information as possible, and present it to the Commission in July, when the Southwest Gladiola case will be called again under terms of its temporary rules. Attorney Earl Hartley spoke up for his clients, Lowe Land Company and others, concurring in the operators' request.

Completions from Northwestern New  
 \* Mexico were not available this  
 week, but will be carried in  
 next week's report.

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NORTHWESTERN NEW MEXICO

Texas National 1 Moncrief Govt	22-29N-12W 1450/N 1190/E	SJ
Pan American 3 Navajo Tribal G	20-29N-14W 660/N 2210/W	SJ
J Glenn Turner 61-4 Huerfanito Unit	4-26N-9W 1850/N 1650/E	SJ
Kay Kimbell 2 Bolack	1-24N-6W 2175/N 1850/E	RA
Kay Kimbell 1 Bolack	1-24N-6W 1190/N 990/W	RA
Southwest Production 1 Newberry Fed	17-31N-12W 990 S&W/L	SJ
Southwest Production 4 Edgar Fed	15-27N-12W 1750/S 1650/W	SJ
R L Bayless 1 Neva	7-30N-17W 330/S 430/E	SJ
R L Bayless 1 Brenda	8-30N-17W 330/S 1650/E	SJ
H F Sears 1-27 Navajo	27-25N-11W 660/N 2080/W	SJ
Aztec 8-G Robinson	22-28N-13W 660/N 1980/E	SJ
Aztec 12-G Hagood	34-29N-13W 910/W 2050/S	SJ
Val R Reese 2-22 Lybrook	22-24N-7W 2060/S 660/E	RA
Edna W Merrion Trust 1 Edna	7-24N-6W 790 S&W/L	RA

NEW LOCATIONS

PD 6225, Elev 5652 DF Basin Dakota
Gallup test, elev not given PD 5100, undesignated
Dakota test, elev 6436 GL PD 6800, Basin
Dakota test, elev 6584 DF PD 7000, Basin
Dakota test, elev 6699 DF PD 7075, Basin
Dakota test, elev 5944 GL PD 7000, Basin
Dakota test, elev 5844 GL PD 6200, Basin
Dakota test, elev 5063 DF PD 1000, Basin
Dakota test, elev 5146 GL PD 1000, Basin
Gallup test, elev 6571 GL PD 5300, Bisti
Gallup test, elev 6115 GL PD 5860, Undesig
Gallup test, elev 5804 GL PD 5650, Totah
Gallup test, elev 6748 GL PD 5700, Escrito
Dual: Dakota & Gallup tests, elev 6900 GL, PD 7100, Devils Fork & Undesig

SOUTHEASTERN NEW MEXICO

Gulf, 1 Eddy State DF	28-17S-29E 1980/S 660/W	Eddy
Western Yates 165 St 648 Tract 15	15-19S-28E 1650 S&E/L	
Simms & Reese 1 TPState	30-19S-28E 1980 S&E/L	
Humble 2 Bandana Point Unit	2-23S-23E 660/N 1980/E	
J F McAdams 1 Nettie Lewis Fed	13-18S-25E 330 S&W/L	

NEW LOCATIONS

Abo test Wildcat
Queen test East Millman-Queen Grayburg
Grayburg test Wildcat
Ellenburger test Wildcat
San Andres test Bitter Lake

J Grady Wright 1 McCallister Fed	28-16S-29E 660 N&W/L	Eddy	San Andres test Forest undesig
Sinclair 25 H E West B	3-17S-31E 660 S&E/L		Grayburg test Grayburg-Jackson
Wm & Ed Hudson 20 Puckett B	25-17S-31E 660/S 1980/W		Grayburg-San Andres test Maljamar
Kersey & E A Hanson 2 Denton	21-18S-29E 330/S 1650/E		Queen test Turkey Track undesig
William Hudson 2B Federal	6-18S-27E 1650/E 2310/N		Grayburg-San Andres test Red Lake
Humble 29 ACBD Unit	17-18S-27E 1650/S 330/E		Abo test Empire-Abo undesig
Donnelly Drilling 1 Featherstone	5-19S-31E 2310/N 330/E		Queen test Culwin undesig
Sinclair 1 Federal Eddy 193	28-22S-21E 1650/N 2055/E		Abo test Wildcat
Lone Star Production 2 Federal N M	20-8S-36E 660/S 1980/E	Roose	Bough test Undesig
Coastal States Gas 2 Federal Hayes	30-8S-37E 660 S&E/L		Bough test Bluitt-Penn
Cities Service 1 Turner D	27-12S-37E 660/S 1980/W	Lea	Devonian test SW Gladiola-Devonian
Amerada 1 State V C	36-17S-35E 2050/S 589/W		Abo test Wildcat
John M Kelly 1 State PE	11-18S-36E 1980 S&W/L		Queen-Grayburg test Wildcat
Cities Service 2 State BF	16-20S-33E 1980 S&W/L		Yates test Undesig
Texaco 2 G E Gordon NCT-1	15-25S-32E 1980 S&W/L		Delaware test Undesig
Tennessee Gas 2 State E L Bradley	16-25S-32E 660 N&E/L		Delaware test Undesig
Texaco 3 G E Jordan Fed NCT-1	22-25S-32E 1980/N 660/W		Delaware test Undesig
<u>SOUTHEASTERN NEW MEXICO</u>			<u>COMPLETIONS</u>
Ernest A Hanson 4 Levick State D	15-11S-27E 330 N&E/L	Chav	Prod Form Queen, Coyote-Queen McWood PL conn 11/18
Lawrence C Harris 1 Read State	11-17S-28E 1980/N 660/E		Prod Form Penrose, East Red Lake-Queen Cactus PL conn 11/14
Sinclair 72 Turner B SP	20-17S-31E 330/S 1980/E		Prod Form Abo Reef, Cedar Lake-Abo undesig T&NM PL conn 11/16
Chambers & Kennedy 2 Monterey State	32-18S-31E 660 N&W/L		Prod Form Yates sand, Undesig Cactus PL conn 11/21
Western Yates 163 State 648 Tract 15	15-19S-28E 330/S 1980/W		Prod Form Queen, East Millman, undesig Continental PL conn 11/16

Len Mayer 2 Barbara Federal	29-19S-31E 2310/S 990/W	Eddy	Prod Form Yates, N Hackberry-Yates Cactus PL conn 11/19
Capoco Corporation 1 Spencer	36-8S-14E 330 S&E/L		P&A Wildcat
R E Sutton 1 Humble State	16-25S-27E 660 N&W/L		P&A Wildcat
Tennessee Gas 3 G E Jordan USA	15-25S-32E 660/N 1980/W	Lea	Prod Form Delaware, Undesignated pool Cactus PL conn 11/15
Cosden 1 Federal D	29-8S-36E 660 N&E/L		Prod Form Bough C, Undesig McWood PL conn 11/17
Gulf 2 W M Rinewalt	4-22S-37E 1874/N 750/W		Prod Form Grayburg, Penrose-Skelly Shell PL conn 11/4
Humble 20 NM State M	29-22S-37E 1980 N&W/L		Prod Form Drinkard and Langlie-Mattix T&NM PL conn 11/9
Sinclair 19 J H McClure	19-24S-38E 1650/S 1980/E		Prod Forms Queen and Drinkard, Dollarhide T&NM PL conn 11/22
Chase Petroleum 1 Cox Federal	1-9S-36E 660 N&W/L		Prod Form Pennsylvanian, Allison-Penn McWood PL conn 11/17